


**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☒

<b>APPLICATION FOR PERMIT TO DRILL</b>						<b>1. WELL NAME and NUMBER</b> Lake Fork Ranch 4-23B4							
<b>2. TYPE OF WORK</b> DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						<b>3. FIELD OR WILDCAT</b> ALTAMONT							
<b>4. TYPE OF WELL</b> Oil Well Coalbed Methane Well: NO						<b>5. UNIT or COMMUNITIZATION AGREEMENT NAME</b>							
<b>6. NAME OF OPERATOR</b> EL PASO E&P COMPANY, LP						<b>7. OPERATOR PHONE</b> 713 420-5038							
<b>8. ADDRESS OF OPERATOR</b> 1001 Louisiana St., Houston, TX, 77002						<b>9. OPERATOR E-MAIL</b> maria.gomez@elpaso.com							
<b>10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)</b> Fee			<b>11. MINERAL OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			<b>12. SURFACE OWNERSHIP</b> FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>							
<b>13. NAME OF SURFACE OWNER (if box 12 = 'fee')</b> Lake Fork Ranch, Inc.						<b>14. SURFACE OWNER PHONE (if box 12 = 'fee')</b> 435-454-3546							
<b>15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')</b> HC 65, Box 510048, Mountain Home, UT 84051						<b>16. SURFACE OWNER E-MAIL (if box 12 = 'fee')</b>							
<b>17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')</b>			<b>18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS</b> YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			<b>19. SLANT</b> VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>							
<b>20. LOCATION OF WELL</b>		<b>FOOTAGES</b>		<b>QTR-QTR</b>		<b>SECTION</b>		<b>TOWNSHIP</b>		<b>RANGE</b>		<b>MERIDIAN</b>	
<b>LOCATION AT SURFACE</b>		1093 FSL 1382 FEL		SWSE		23		2.0 S		4.0 W		U	
<b>Top of Uppermost Producing Zone</b>		1093 FSL 1382 FEL		SWSE		23		2.0 S		4.0 W		U	
<b>At Total Depth</b>		1093 FSL 1382 FEL		SWSE		23		2.0 S		4.0 W		U	
<b>21. COUNTY</b> DUCHESENE			<b>22. DISTANCE TO NEAREST LEASE LINE (Feet)</b> 1093			<b>23. NUMBER OF ACRES IN DRILLING UNIT</b> 640							
			<b>25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)</b> 2200			<b>26. PROPOSED DEPTH</b> MD: 13150 TVD: 13150							
<b>27. ELEVATION - GROUND LEVEL</b> 6296			<b>28. BOND NUMBER</b> 400JU0708			<b>29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE</b> 43-8362							
<b>Hole, Casing, and Cement Information</b>													
<b>String</b>	<b>Hole Size</b>	<b>Casing Size</b>	<b>Length</b>	<b>Weight</b>	<b>Grade &amp; Thread</b>	<b>Max Mud Wt.</b>	<b>Cement</b>		<b>Sacks</b>	<b>Yield</b>	<b>Weight</b>		
COND	17.5	13.375	0 - 700	54.5	J-55 ST&C	8.9	Class G		470	1.15	15.6		
SURF	12.25	9.625	0 - 4500	40.0	K-55 LT&C	10.0	Premium Lite High Strength		1060	1.78	12.0		
							Class G		190	1.25	14.1		
I1	8.75	7	0 - 10704	29.0	P-110 LT&C	13.0	Premium Lite High Strength		550	1.78	12.0		
							Class G		40	2.3	12.5		
L1	6.125	4.5	10504 - 13150	13.5	P-110 LT&C	13.0	Class G		180	1.53	14.1		
<b>ATTACHMENTS</b>													
<b>VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES</b>													
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN							
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP							
<b>NAME</b> Maria S. Gomez				<b>TITLE</b> Sr. Regulatory Analyst				<b>PHONE</b> 713 420-5038					
<b>SIGNATURE</b>				<b>DATE</b> 04/29/2011				<b>EMAIL</b> maria.gomez@elpaso.com					
<b>API NUMBER ASSIGNED</b> 43013507130000				<b>APPROVAL</b>  Permit Manager									

RECEIVED: August 09, 2011

**Lake Fork Ranch 4-23B4  
Sec. 23, T2S, R4W  
DUCESNE COUNTY, UT  
Revised 8/2/11**

**EL PASO E&P COMPANY, L.P.**

**DRILLING PROGRAM**

**1. Estimated Tops of Important Geologic Markers**

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	5,609'
Green River (GRTN1)	6,508'
Mahogany Bench	7,535'
L. Green River	8,859'
Wasatch	10,604'
T.D. (Permit)	13,150'

**2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	5,609'
	Green River (GRTN1)	6,508'
	Mahogany Bench	7,535'
Oil	L. Green River	8,859'
Oil	Wasatch	10,604'

**3. Pressure Control Equipment: (Schematic Attached)**

A 4.5" by 20.0" rotating head on structural pipe from surface to 700'. A 4.5" by 13 3/8" Smith Rotating Head from 700' to 4500' on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 4,500' to 10,704'. A 10M BOE w/rotating head, 5M annular, blind rams & mud cross from 10,704' to TD.

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

**OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:**

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi Annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock, floor safety valves will be tested to 5M psi. The annular preventer will be

tested to 250 psi low test and 4,000 psi high test. The 10M BOP will be installed with 3 ½" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

**Statement on Accumulator System and Location of Hydraulic Controls:**

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

**Auxiliary Equipment:**

- A) Mud logger with gas monitor – 5,500' to TD
- B) Choke manifold with one manual and one hydraulic operated choke
- C) Full opening floor valve with drill pipe thread
- D) Upper and lower Kelly cock
- E) Shaker, desander and desilter.

**4. Proposed Casing & Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations will be based on 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. 50% excess over gauge volume will be pumped on surface casing.

**5. Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.4 – 8.9
Intermediate	WBM	8.4 – 10.0
Production	WBM	10.0 – 13.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 5,500' - TD.

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from base of surface casing to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 13,150' TD equals approximately 8,890 psi. This is calculated based on a 0.676 psi/foot gradient (13 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,996 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 10,704' = 8,563 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 5,996 psi.

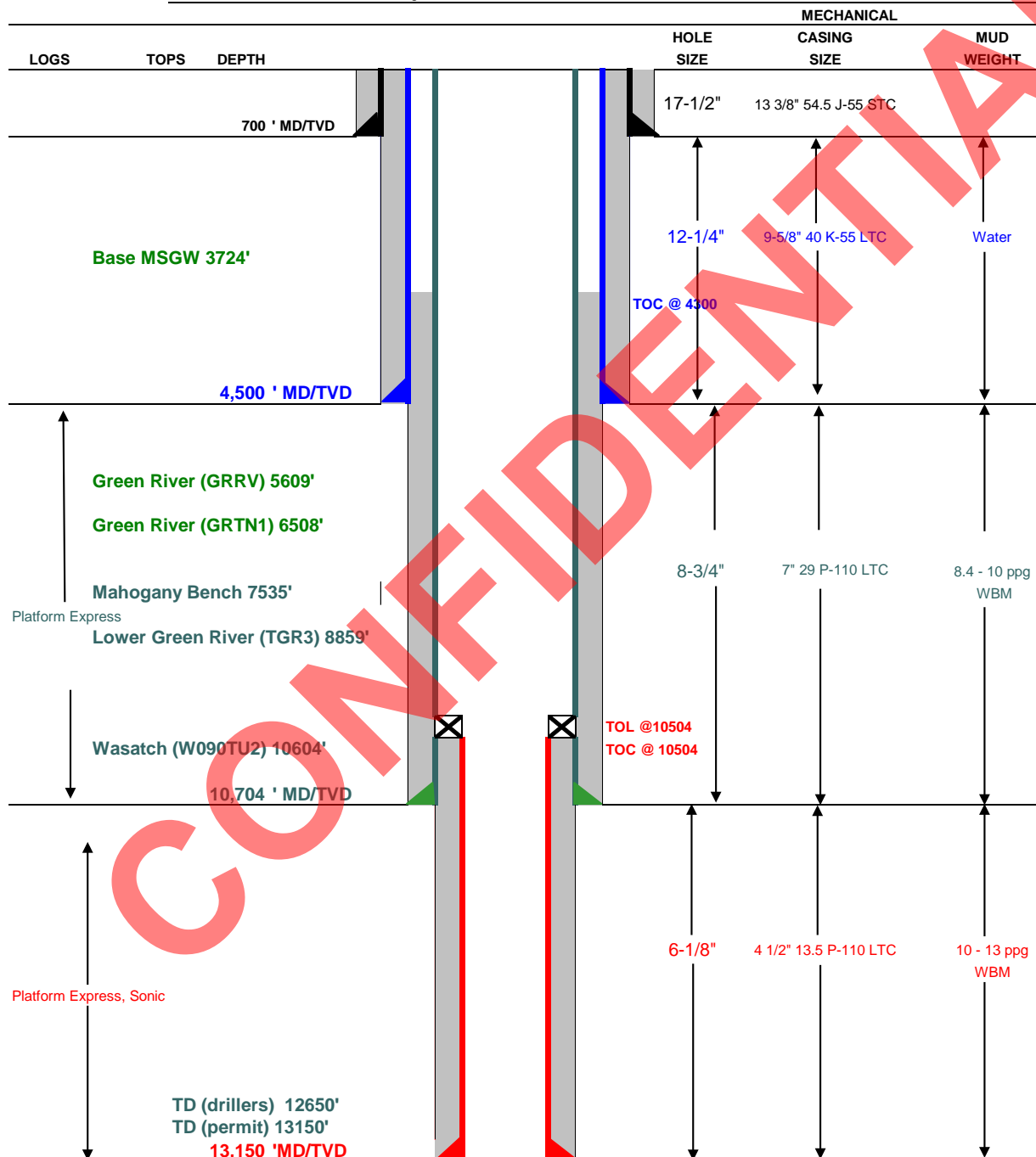
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**





### Drilling Schematic

<b>Company Name:</b> El Paso Exploration & Production	<b>Date:</b> April 21, 2011
<b>Well Name:</b> Lake Fork Ranch 4-23B4	<b>TD:</b> 13,150
<b>Field, County, State:</b> Altamont - Bluebell, Duchesne, Utah	<b>AFE #:</b>
<b>Surface Location:</b> Sec 23 T2S R4W 1093' FSL 1382' FEL	<b>BHL:</b> Vertical Well
<b>Objective Zone(s):</b> Green River, Wasatch	<b>Elevation:</b> 6291 'GL 6324 'KB
<b>Rig:</b> Precision drilling 404	<b>Spud (est.):</b>
<b>BOPE Info:</b> 5M x 13 3/8" rotating head from 700 ft to 4500 ft. 11" 5M BOP stack and 5M kill lines and choke manifold used from 4500 ft. to 10704 ft & 7-1/16" 10M BOE w/rotating head, 5M annular, 3.5" rams, blind rams & mud cross from 10704 ft to TD	



**DRILLING PROGRAM****CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0' - 700	54.5	J-55	STC	2,730	1,130	1,399
						3.41	2.44	25.67
						3,950	2,570	561
SURFACE	9-5/8"	0' - 4500	40.00	K-55	LTC	1.10	1.22	2.20
						11,220	8,530	797
INTERMEDIATE	7"	0' - 10704	29.00	P-110	LTC	1.31	1.53	2.20
						12,410	10,680	338
PRODUCTION LINER	4 1/2"	10504' - 13150	13.50	P-110	LTC	1.45	1.25	2.74

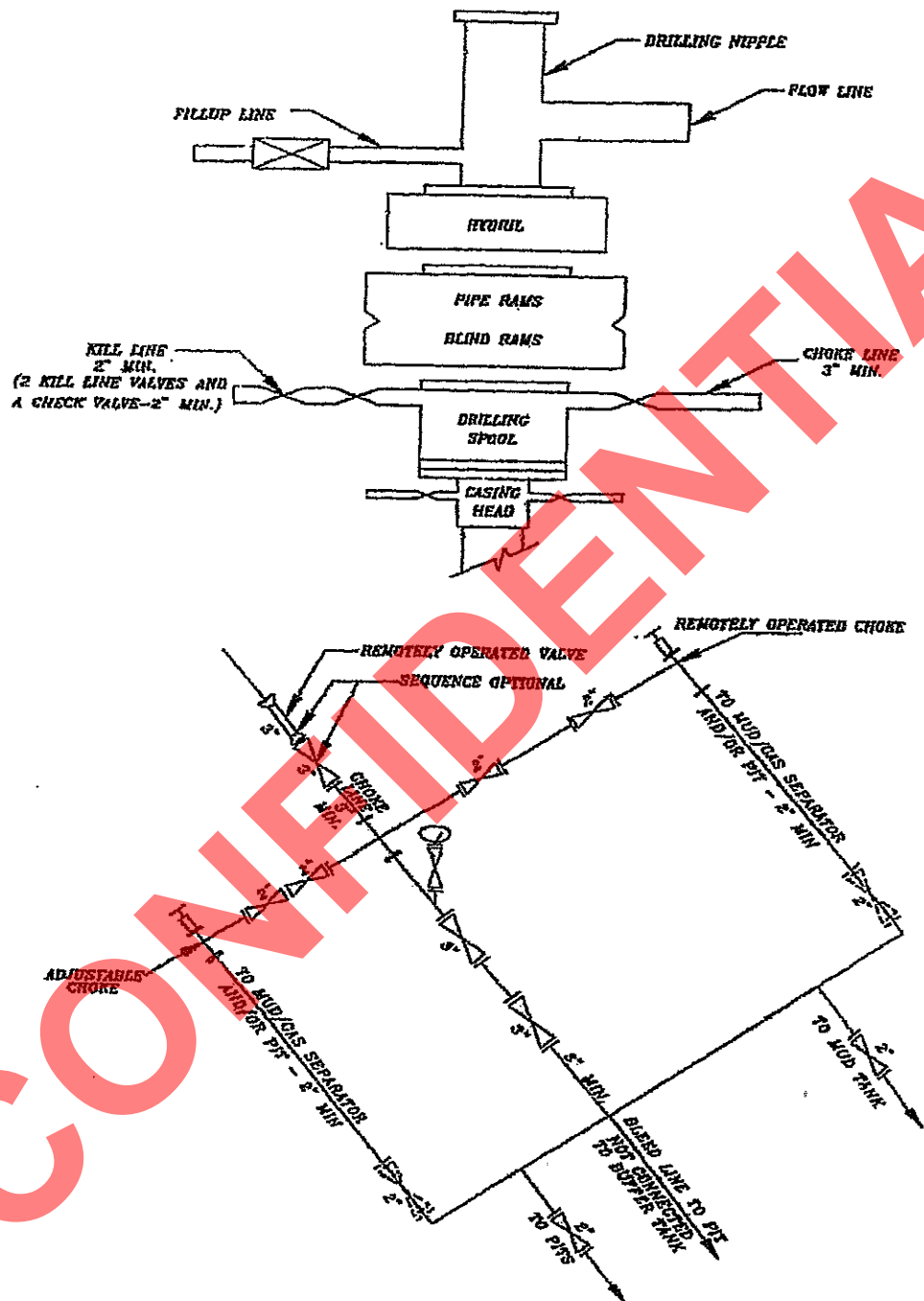
CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		700	Class G + 3% CACL2	470	10%	15.6 ppg	1.15
SURFACE	Lead	4,000	12.0 TXI Lead Slurry w/ 1% Extender + .05% FLA + .5% Antifoam + .75% Retarder	1060	50%	12.0 ppg	1.78
	Tail	500	Class G 50:50 poz, 2% CaCl2, 2% gel 0.3% sodium metasilicate	190	50%	14.1 ppg	1.25
INTERMEDIATE	Lead	5,904	12.0 TXI Lead Slurry w/ 1% Extender + .05% FLA + .5% Antifoam + .75% Retarder	550	10%	12.0 ppg	1.78
	Tail	500	0.2 %bwob D167 10:0 RFC (Class G)	40	10%	12.5 ppg	2.30
PRODUCTION LINER		2,646	WellBond Slurry	180	10%	14.1 ppg	1.53
			Class G + 35 #/sk extender + 15% silica + .7% gas control agent + 0.3% Dispersant + 0.4% retarder + 0.2% anti foam + 0.25#/sk lost circ control agent				

**FLOAT EQUIPMENT & CENTRALIZERS**

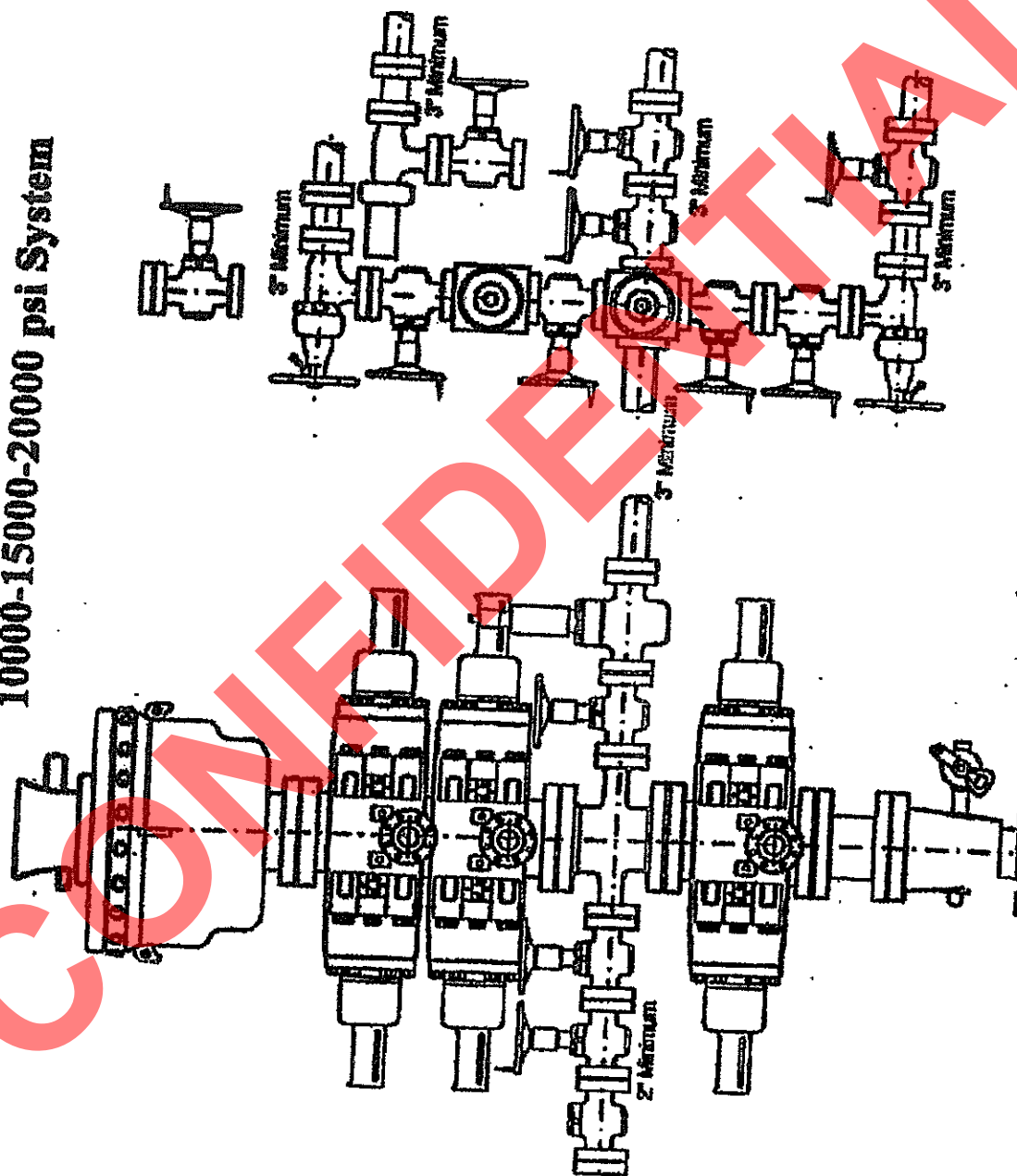
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable float shoe, 1 joint casing & PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Install bow spring centralizers on first 3 joints, then every 3rd joint.
LINER	Float shoe, 3 joints, float collar. Centralizer every other joint. Thread lock all FE

PROJECT ENGINEER(S): Neil McRobbieMANAGER: Eric Giles

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM



10000-15000-20000 psi System



**EL PASO E&P COMPANY, L.P.**  
**LAKE FORK RANCH 4-23B4**  
**SECTION 23, T2S, R4W, U.S.B.&M.**

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 8.62 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY THEN NORTHEASTERLY ON A GRAVEL ROAD 4.18 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL SOUTHEASTERLY 0.37 MILES ON A GRAVEL ROAD TO THE BEGINNING OF THE ACCESS ROAD;

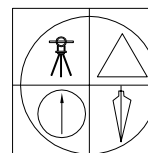
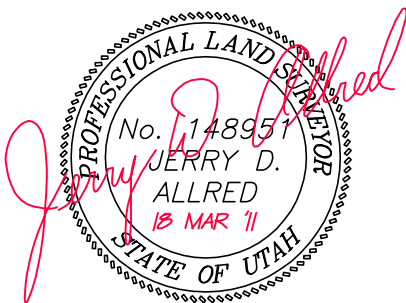
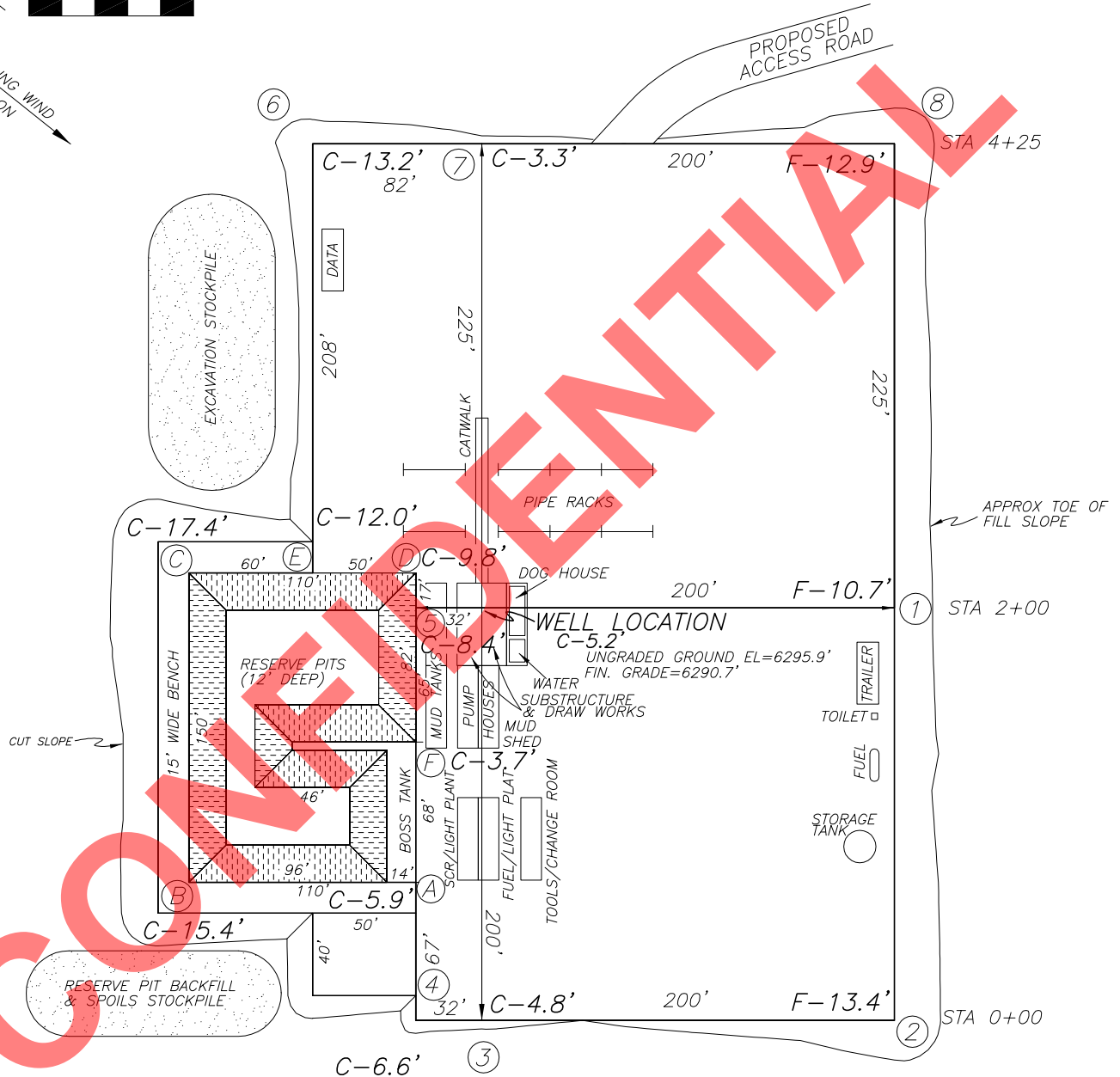
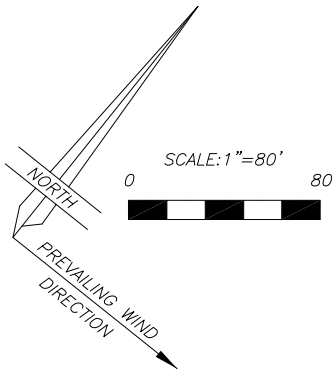
TURN RIGHT AND FOLLOW ROAD FLAGS SOUTHWESTERLY 0.12 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 13.29 MILES.

CONFIDENTIAL

**EL PASO E & P COMPANY, L.P.**

LOCATION LAYOUT FOR  
LAKE FORK RANCH 4-23B4  
SECTION 23, T2S, R4W, U.S.B.&M.  
1093' FSL, 1382' FEL

**FIGURE #1**

**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESTER, UTAH 84021  
(435) 738-5352

11 MAR 2011

01-128-224

**RECEIVED: April 29, 2011**

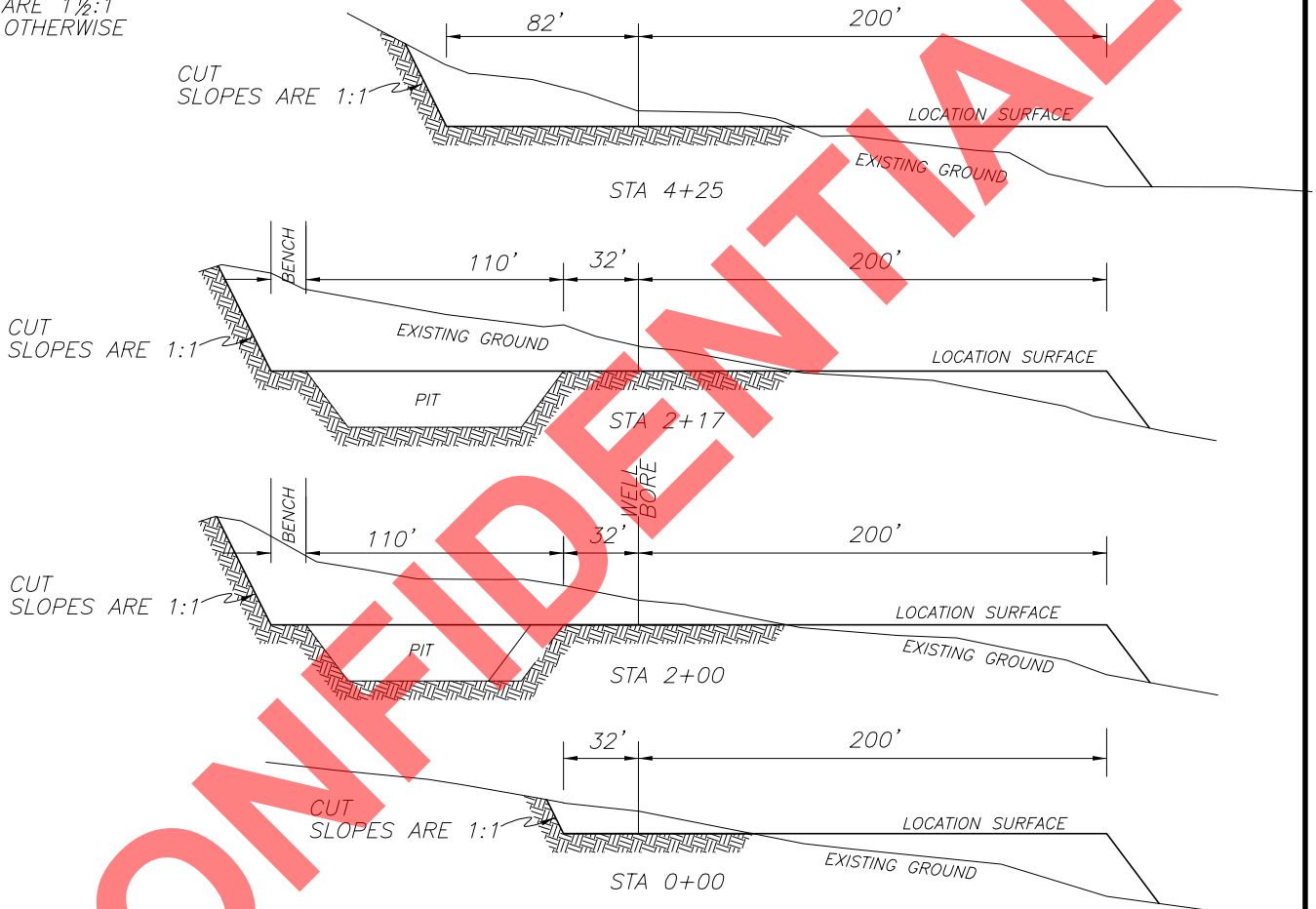
**EL PASO E & P COMPANY, L.P.**

LOCATION LAYOUT FOR  
LAKE FORK RANCH 4-23B4  
SECTION 23, T2S, R4W, U.S.B.&M.  
1093' FSL, 1382' FEL

FIGURE #2

1"=40'  
X-SECTION  
SCALE  
1"=80'

NOTE: ALL CUT/FILL  
SLOPES ARE 1½:1  
UNLESS OTHERWISE  
NOTED



## APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 23,970 CU. YDS.

PIT CUT = 4570 CU. YDS.

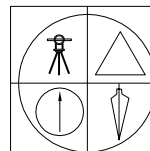
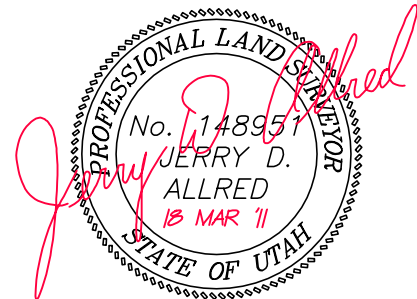
TOPSOIL STRIPPING: (6") = 2850 CU. YDS.

REMAINING LOCATION CUT = 16,550 CU. YDS

TOTAL FILL = 16,550 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=177 CU. YDS.



JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

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ELPASO E&P COMPANY, L.P.

LAKE FORK RANCH 4-23B4  
SECTION 23, T2S, R4W, U.S.B.&M.

DUCHESNE COUNTY, UTAH

LINE	BEARING	LENGTH
L1	N 38°40'17" W	475.00'
L2	N 51°19'43" E	475.00'
L3	S 38°40'17" E	475.00'
L4	S 51°19'43" W	475.00'
L5	N 28°01'14" E	99.97'
L6	N 40°12'52" E	111.06'
L7	N 34°16'14" E	125.91'
L8	N 35°22'33" E	140.32'
L9	N 43°14'10" E	112.27'

Commencing at the Southeast Corner of Section 23, Township 2 South, Range 4 West of the Uintah Special Base and Meridian;

Thence North 62°04'40" West 1631.02 feet to the TRUE POINT OF BEGINNING;

Thence North 38°40'17" West 475.00 feet;

Thence North 51°19'43" East 475.00 feet;

Thence South 38°40'17" East 475.00 feet;

Thence South 51°19'43" West 475.00 feet to the TRUE POINT OF BEGINNING, containing 5.18 acres.

*A 66 feet wide access road, power line, and pipeline corridor right-of-way over portions of Section 23, Township 2 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of said right-of-way being further described as follows:*

Thence North 46°31'32" West 1990.48 feet to the TRUE POINT OF BEGINNING;  
Thence North 28°01'14" East 99.97' feet;  
Thence North 40°12'52" East 111.06 feet;  
Thence North 34°16'14" East 125.91 feet;  
Thence North 35°22'33" East 140.32 feet;  
Thence North 43°14'10" East 112.27 feet to the West line of an existing road. Said right-of-way being 589.53 feet in length with the side lines being shortened or elongated to intersect said use area boundary and existing road lines.

This is to certify that this plot was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plot accurately represents said survey to the best of my knowledge.

JERRY D. ALLRED, REGISTERED LAND SURVEYOR,  
CERTIFICATE NO. 148951 (UTAH)

LAND SURVEYOR, STATE OF UTAH

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°21'33.56926"N AND LONG. 110°16'31.53164"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

18 MAR 2011 01-128-224

01-128-224

**EL PASO E & P COMPANY, L.P.**  
SURFACE USE AREA  
LAKE FORK RANCH 4-23B4  
5.18 ACRES

Brent Brotherson NW¼SE¼

Brent Brotherson SW¼SE¼

Brent Brotherson NE¼SE¼

EXISTING ROAD

PROPOSED PIPELINE ACCESS ROAD, POWER LINE, AND PIPELINE CORRIDOR RIGHT-OF-WAY

LINE	BEARING	LENGTH
L1	N 38°40'17" W	475.00'
L2	N 51°19'43" E	475.00'
L3	S 38°40'17" E	475.00'
L4	S 51°19'43" W	475.00'
L5	N 28°01'14" E	99.97'
L6	N 40°12'52" E	111.06'
L7	N 34°16'14" E	125.91'
L8	N 35°22'33" E	140.32'
L9	N 43°14'10" E	112.27'

TO SECTION CORNER N 00°13'29" W 5265.22'

TO SECTION CORNER

TO SECTION CORNER N 89°54'28" W 5290.78'

SCALE: 1"=400'

0' 400' 800'

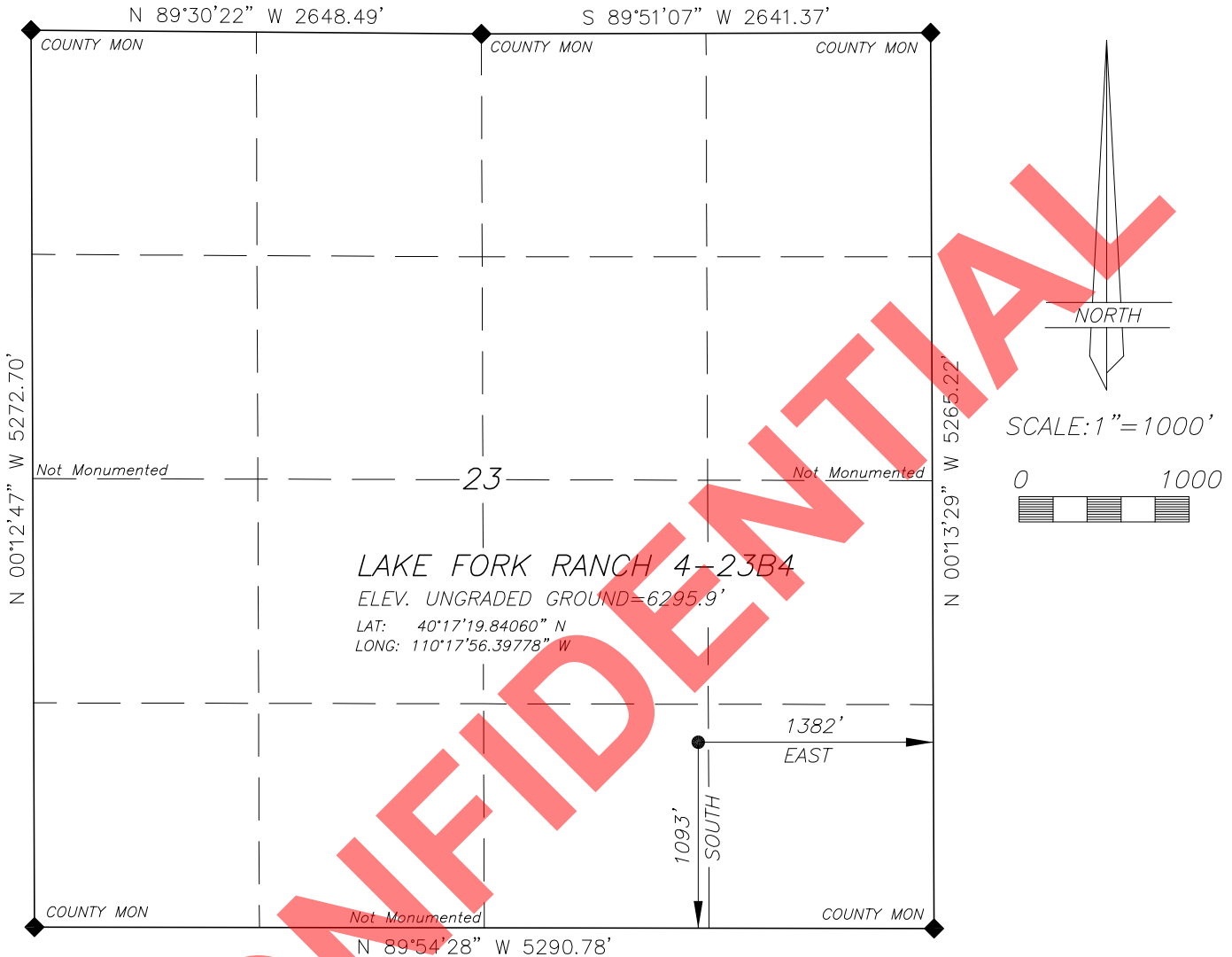
NORTH

DRAFT

**EL PASO E & P COMPANY, L.P.**

WELL LOCATION

LAKE FORK RANCH 4-23B4

LOCATED IN THE SW¼ OF THE SE¼ OF  
SECTION 23, T2S, R4W, U.S.B.&M.  
DUCHESNE COUNTY, UTAH**LEGEND AND NOTES**

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

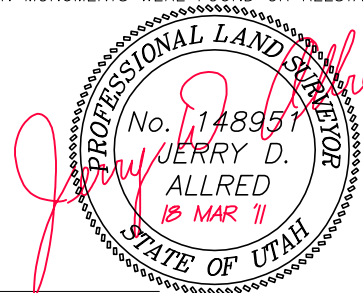
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT A CONTROL POINT LOCATED AT LAT. 40°21'33.56926"N AND LONG. 110°16'31.53164"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

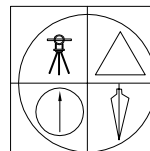
BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

**SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



JERRY D. ALLRED, REGISTERED LAND SURVEYOR,  
CERTIFICATE NO. 148951 (UTAH)



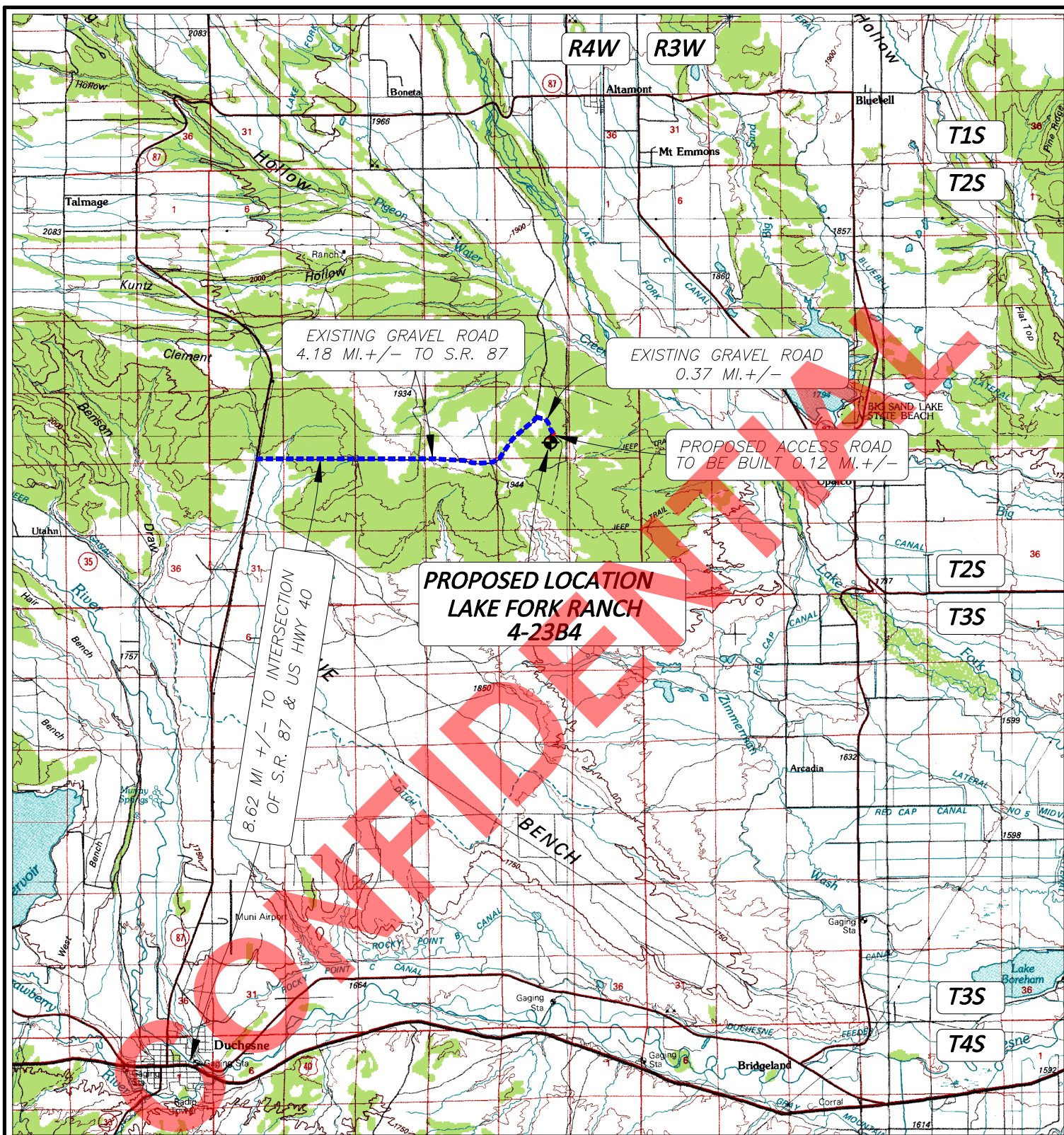
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11 MAR 2011 01-128-224

**RECEIVED: April 29, 2011**





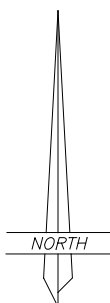
# LEGEND:

PROPOSED WELL LOCATION

01-128-224

JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975  
DUCHESTER, UTAH 84021  
(435) 738-5352



EL PASO E & P COMPANY, L.P.

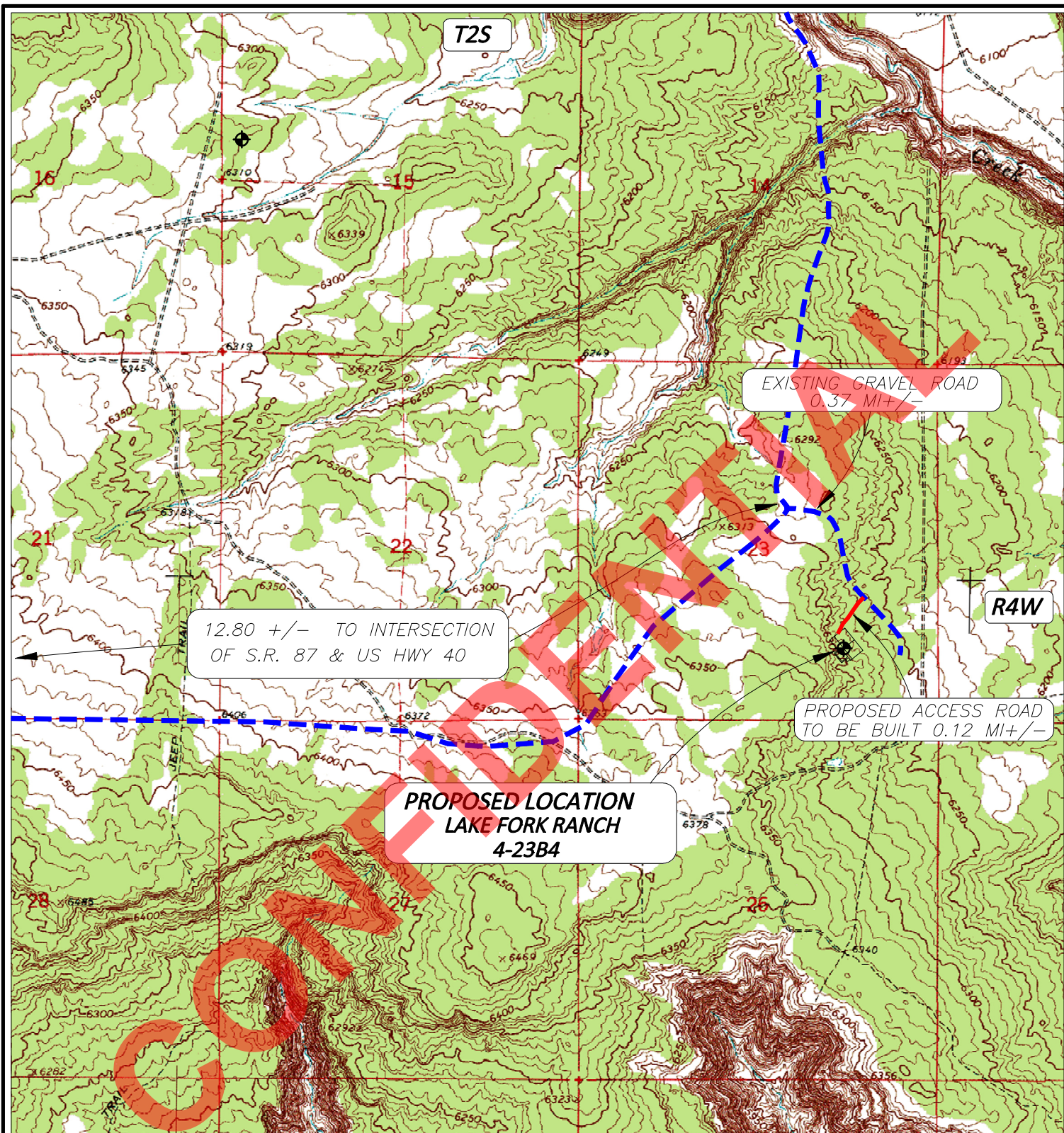
LAKE FORK RANCH 4-23B4  
SECTION 23, T2S, R4W, U.S.B.&M.  
1093' FSL 1382' FEL

TOPOGRAPHIC MAP "A"

SCALE: 1"=10,000'  
10 MAR 2011

RECEIVED: April 29, 2011

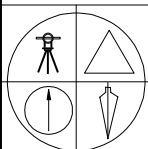




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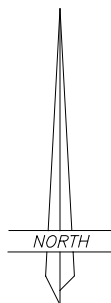
- PROPOSED WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING GRAVEL ROAD

01-128-224



**JERRY D. ALLRED & ASSOCIATES**  
SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975  
DUCHESTER, UTAH 84021  
(435) 738-5352



**EL PASO E & P COMPANY, L.P.**

LAKE FORK RANCH 4-23B4  
SECTION 23, T2S, R4W, U.S.B.&M.

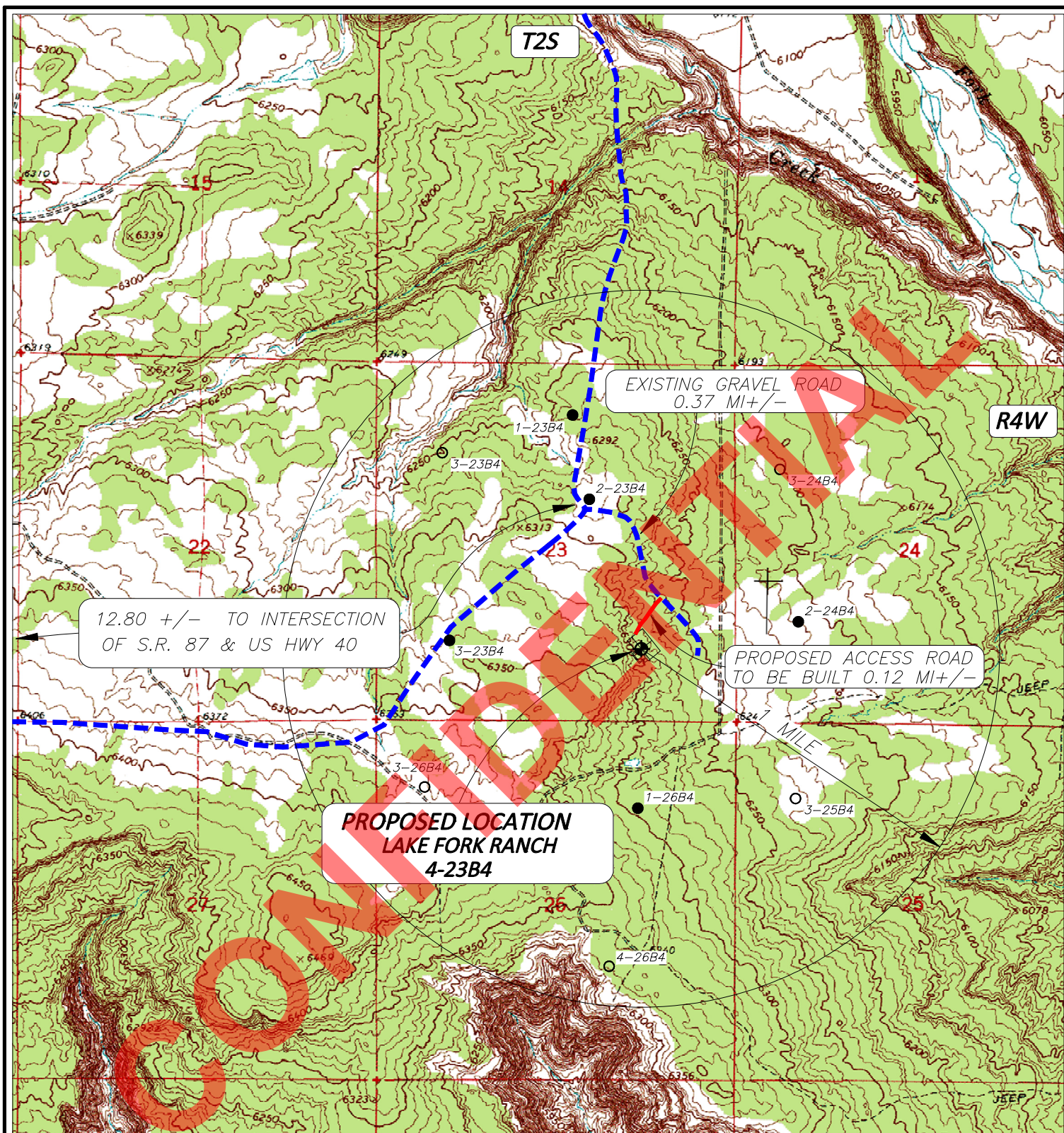
1093' FSL 1382' FEL

**TOPOGRAPHIC MAP "B"**

SCALE: 1"=2000'  
14 MAR 2011

**RECEIVED: April 29, 2011**





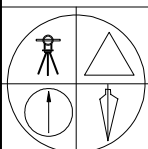
# LEGEND:

⊕ PROPOSED WELL LOCATION

2-25C6  
● ○

OTHER WELLS AS LOCATED FROM  
SUPPLIED MAP

01-128-224



JERRY D. ALLRED & ASSOCIATES  
SURVEYING CONSULTANTS

121 NORTH CENTER ST.--P.O. BOX 975  
DUCHESE, UTAH 84021  
(435) 738-5352

EL PASO E & P COMPANY, L.P.

LAKE FORK RANCH 4-23B4  
SECTION 23, T2S, R4W, U.S.B.&M.  
1093' FSL 1382' FEL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'  
14 MAR 2011

RECEIVED: April 29, 2011



**AFFIDAVIT OF SURFACE DAMAGE AND RIGHT-OF-WAY AGREEMENTS**

Catherine L. Hammock personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Catherine L. Hammock. I am a Sr. Staff Landman for El Paso E&P Company, L.P., whose address is 1099 18<sup>th</sup> Street, Denver, Colorado 80202 ("El Paso").
2. El Paso is the operator of the proposed Lake Fork Ranch 4-23B4 well (the "Well") to be located in the S/2 of the SE/4 of Section 23, Township 2 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is Lake Fork Ranch, Inc., whose address is HC 65, Box 510048, Mountain Home, UT 84051-9801 (the "Surface Owner").
3. El Paso and the Surface Owner have entered into a Damage Settlement and Release Agreement dated April 7, 2011 to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.
4. El Paso and the Surface Owner have also entered into a Right-of-Way Agreement dated April 7, 2011 for an access road, powerline and pipeline corridor across the N/2 of the SE/4 of Section 23, Township 2 South, Range 4 West, USM, Duchesne County, Utah.

FURTHER AFFIANT SAYETH NOT.

  
Catherine L. Hammock

**ACKNOWLEDGMENT**

STATE OF COLORADO           §  
   §  
CITY AND COUNTY OF DENVER   §

Before me, a Notary Public, in and for this state, on this 19th day of April, 2011, personally appeared Catherine L. Hammock, to me known to be the identical person who executed the within and foregoing instrument, and acknowledged to me that she executed the same as her own free and voluntary act and deed for the uses and purposes therein set forth.

  
NOTARY PUBLIC

My Commission Expires:



My Commission Expires 09/26/2014

**EL PASO E&P COMPANY, L.P.**

**Related Surface Information**

**1. Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

**2. Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .12 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

**3. Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

**4. Location And Type Of Drilling Water Supply:**

- Drilling water: 43-8362 and Upper Country Water

**5. Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .12 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

**6. Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

**7. Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

**8. Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15<sup>th</sup>, and prior to ground frost, or seed will be planted after the frost has left and before May 15<sup>th</sup>. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
  1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
  2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
  3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
  1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
  2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

Lake Fork Ranch, Inc.

HC 65, Box 510048

Mountain Home, Utah 84051-9801

Phone: 435-454-3546 home

435-823-7810 cell

**Other Information:**

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

**Construction and Reclamation:**

El Paso E & P Company, L.P.

Wayne Garner

PO Box 410

Altamont, Utah 84001

435-454-3394 – Office

435-823-1490 – Cell

**Regarding This APD**

El Paso E & P Company, L.P.

Maria Gomez

1001 Louisiana

Houston, Texas 77002

713.420.5038 – Office

832-683-0361 – Cell

**Drilling**

El Paso E & P Company, L.P.

Joe Cawthorn – Drilling Engineer

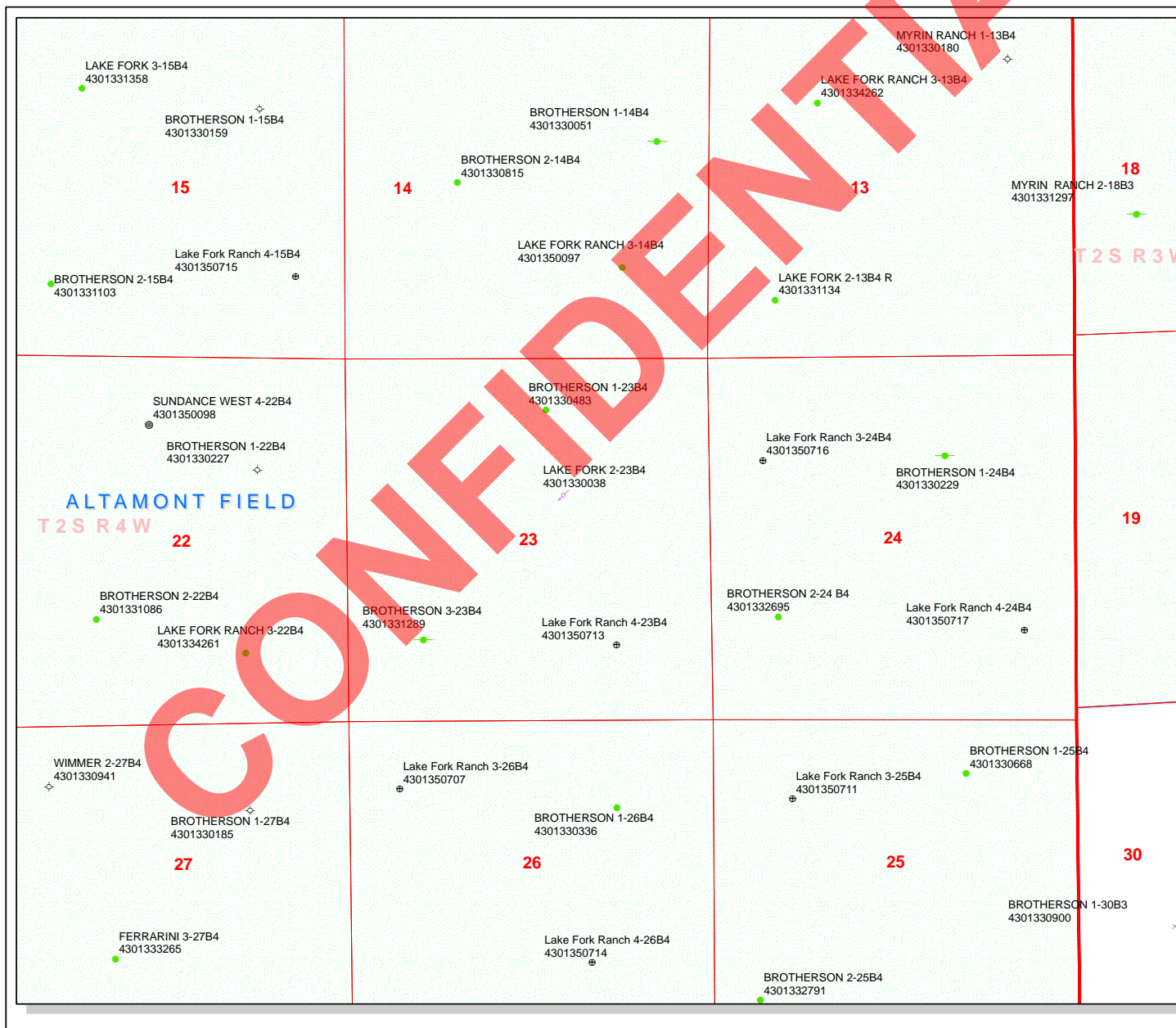
1001 Louisiana

Houston, Texas 77002

713.420.5929 – Office

832.465.2882 - Cell





API Number: 4301350713

Well Name: Lake Fork Ranch 4-23B4

Township T0.2 . Range R0.4 . Section 23

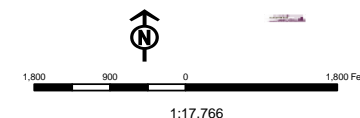
Meridian: UBM

Operator: EL PASO E&P COMPANY, LP

Map Prepared:

Map Produced by Diana Mason

Units	Wells Query
STATUS	STATUS
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GIW - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERML	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
	SGW - Shut-in Gas Well
	SOW - Shut-in Oil Well
	TA - Temp. Abandoned
	TW - Test Well
	WDW - Water Disposal
	WW - Water Injection Well
	WSW - Water Supply Well
Fields	
Unknown	
ABANDONED	
ACTIVE	
COMBINED	
INACTIVE	
STORAGE	
TERMINATED	
Sections	
Township	



## BOPE REVIEW

EL PASO E&amp;P COMPANY, LP Lake Fork Ranch 4-23B4 43013507130000

Well Name	EL PASO E&P COMPANY, LP Lake Fork Ranch 4-23B4 43013			
String	COND	SURF	I1	L1
Casing Size(in)	13.375	9.625	7.000	4.500
Setting Depth (TVD)	700	4500	10704	13150
Previous Shoe Setting Depth (TVD)	0	700	4500	10704
Max Mud Weight (ppg)	8.9	10.0	13.0	13.0
BOPE Proposed (psi)	500	1000	5000	10000
Casing Internal Yield (psi)	2730	3950	11220	12410
Operators Max Anticipated Pressure (psi)	8890			13.0

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	324	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	240	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	170	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	170	NO OK
Required Casing/BOPE Test Pressure=		700	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2340	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	1800	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1350	NO OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1504	NO Reasonable
Required Casing/BOPE Test Pressure=		2765	psi
*Max Pressure Allowed @ Previous Casing Shoe=		700	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	7236	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5952	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4881	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5871	NO Reasonable
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		3950	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	8889	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	7311	YES
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5996	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	8351	YES OK
Required Casing/BOPE Test Pressure=		8687	psi

API Well Number: 43013507130000

\*Max Pressure Allowed @ Previous Casing Shoe=

10704

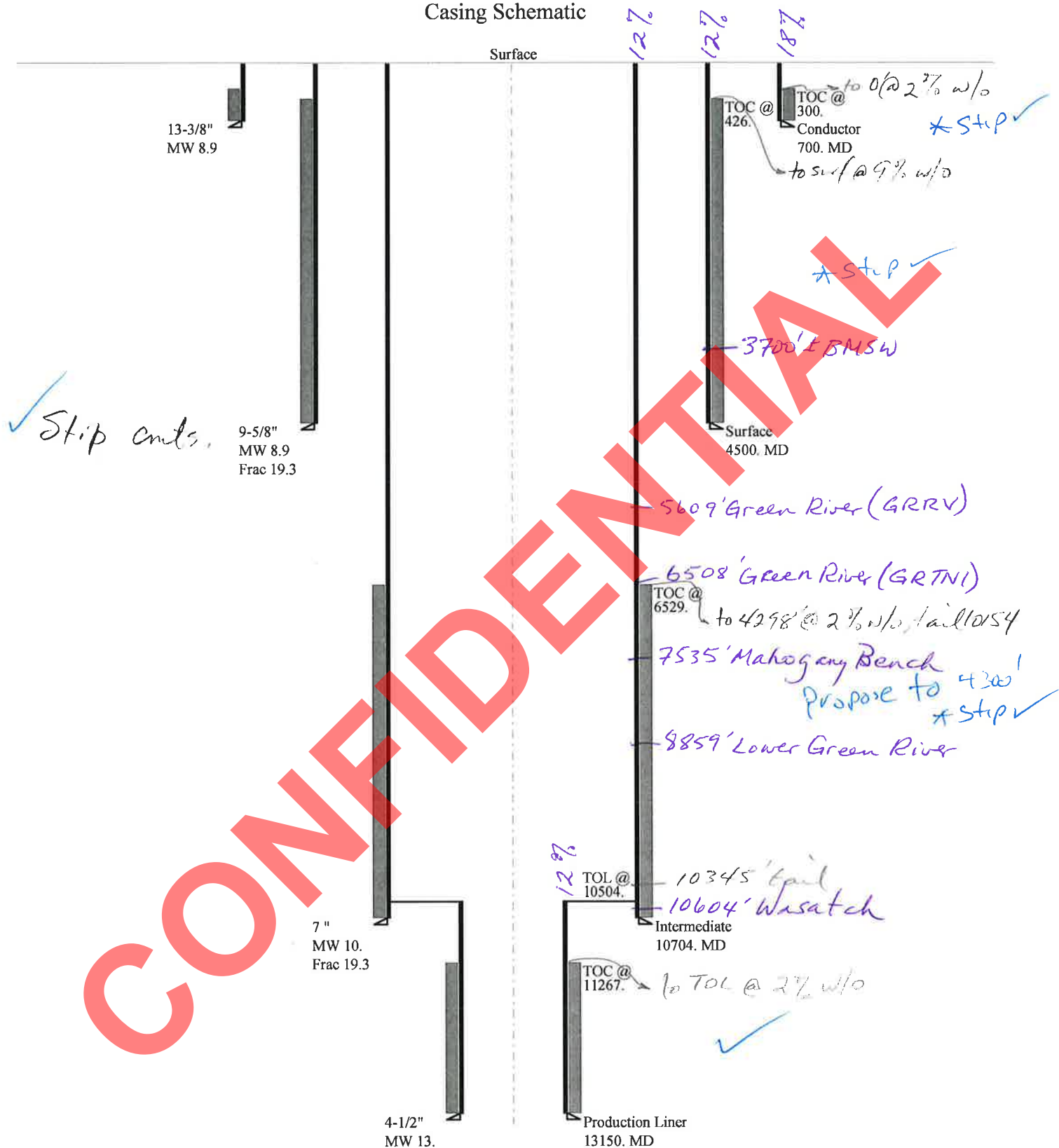
psi \*Assumes 1psi/ft frac gradient

CONFIDENTIAL

**RECEIVED:** August 08, 2011

# 43013507130000 Lake Fork Ranch 4-23B4

## Casing Schematic



Well name:	<b>43013507130000 Lake Fork Ranch 4-23B4</b>	
Operator:	<b>EL PASO E&amp;P COMPANY, LP</b>	
String type:	Conductor	Project ID: 43-013-50713
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.900 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 84 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 300 ft

**Burst**

Max anticipated surface pressure: 240 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 324 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Non-directional string.

Tension is based on air weight.  
Neutral point: 608 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	700	13.375	54.50	J-55	ST&C	700	700	12.49	8684
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	324	1130	3.492	324	2730	8.44	38.1	514	13.48 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: August 8, 2011  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 700 ft, a mud weight of 8.9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



Well name:	<b>43013507130000 Lake Fork Ranch 4-23B4</b>	
Operator:	<b>EL PASO E&amp;P COMPANY, LP</b>	Project ID:
String type:	Surface	43-013-50713
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.900 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 137 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 426 ft

**Burst**

Max anticipated surface pressure: 3,206 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 4,196 psi  
  
Annular backup: 1.00 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 3,904 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 10,704 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 5,561 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 4,500 ft  
Injection pressure: 4,500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	4500	9.625	40.00	K-55	LT&C	4500	4500	8.75	47639
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	2081	2570	1.235	3962	3950	1.00	180	561	3.12 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: August 8, 2011  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 4500 ft, a mud weight of 8.9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013507130000 Lake Fork Ranch 4-23B4</b>	
Operator:	<b>EL PASO E&amp;P COMPANY, LP</b>	
String type:	Intermediate	Project ID: 43-013-50713
Location:	DUCHESE COUNTY	

**Design parameters:****Collapse**

Mud weight: 10.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 224 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

Cement top: 6,529 ft

**Burst**

Max anticipated surface pressure: 5,988 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 8,342 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 9,084 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 13,150 ft  
Next mud weight: 13.000 ppg  
Next setting BHP: 8,881 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 10,704 ft  
Injection pressure: 10,704 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	10704	7	29.00	P-110	LT&C	10704	10704	6.059	120875
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5560	8530	1.534	8342	11220	1.34	310.4	797	2.57 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: August 8, 2011  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 10704 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	<b>43013507130000 Lake Fork Ranch 4-23B4</b>		
Operator:	<b>EL PASO E&amp;P COMPANY, LP</b>		
String type:	Production Liner	Project ID:	43-013-50713
Location:	DUCHESNE COUNTY		

**Design parameters:****Collapse**

Mud weight: 13.000 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 258 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 1,000 ft

Cement top: 11,267 ft

**Burst**

Max anticipated surface pressure: 5,988 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 8,881 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.80 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.60 (B)

Tension is based on air weight.  
Neutral point: 12,642 ft

Liner top: 10,504 ft  
**Non-directional string.**

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2650	4.5	13.50	P-110	LT&C	13150	13150	3.795	14849
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	8881	10680	1.203	8881	12410	1.40	35.8	338	9.45 J

Prepared by: Helen Sadik-Macdonald  
Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: August 8, 2011  
Salt Lake City, Utah

**Remarks:**

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 13150 ft, a mud weight of 13 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.



**ON-SITE PREDRILL EVALUATION****Utah Division of Oil, Gas and Mining**

**Operator** EL PASO E&P COMPANY, LP  
**Well Name** Lake Fork Ranch 4-23B4  
**API Number** 43013507130000 **APD No** 3686 **Field/Unit** ALTAMONT  
**Location: 1/4,1/4** SWSE **Sec** 23 **Tw** 2.0S **Rng** 4.0W 1093 FSL 1382 FEL  
**GPS Coord (UTM)** 559648 4459847 **Surface Owner** Lake Fork Ranch, Inc.

**Participants**

Dave Allred (El Paso); Ryan Allred (Allred & Associates); Dennis Ingram (DOGM)

**Regional/Local Setting & Topography**

Wellsite is located northeast of Duchesne Utah along the northern portion of Blue Bench in sloped pinion/juniper habitat, and accessed by driving north out of Duchesne along Highway 87 for 8.62 miles, then east along Caravan Lane for another 4.18 miles, then exit east when the road turns north along existing gravel road for 0.37 miles, the southwest 0.12 miles of new access road into wellsite. The immediate area around the proposed location has either been burned or chained to promote open grassland for cattle grazing, and slopes to the east out onto a lower bench that drops off into the Lake Fork drainage approximately two miles east of the proposed wellsite. To the north this bench land surface drops off into fingered drainages that flow northeast into the Lake Fork River Drainage. Approximately one mile south of this site the northern portion of Blue Bench breaks off sharply over six hundred feet in elevation into the lower portion of Blue Bench and exposes sandstone ledge rock commonly found throughout much of northern Utah; to the west of this site the surface is similar to the immediate area around the location.

**Surface Use Plan**

**Current Surface Use**  
Grazing

<b>New Road Miles</b>	<b>Well Pad</b>	<b>Src Const Material</b>	<b>Surface Formation</b>
0.12	<b>Width</b> 282 <b>Length</b> 425	Onsite	UNTA

**Ancillary Facilities** N

**Waste Management Plan Adequate?** Y

**Environmental Parameters**

**Affected Floodplains and/or Wetlands** N

**Flora / Fauna**

Pinion/Juniper habitat, cedar trees present, sagebrush, grass and Prickly Pear cactus, area has been railed in places and burned to promote rangeland for cattle grazing; elk and mule deer winter range, potential mountain lion, coyote, bobcat, rabbit and other smaller mammals and bird life native to region.

**Soil Type and Characteristics**

Reddish tan sandy loam with clays present underlying cobbler and sandstone outcropping at the surface

**Erosion Issues** N

**Sedimentation Issues** N

Site Stability Issues N

Drainage Diversion Required? Y

Berm along southeastern side of location to prevent sediment from washing into reserve pit and onto location.

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N

**Reserve Pit****Site-Specific Factors****Site Ranking**

<b>Distance to Groundwater (feet)</b>	>200	0
<b>Distance to Surface Water (feet)</b>	>1000	0
<b>Dist. Nearest Municipal Well (ft)</b>	>5280	0
<b>Distance to Other Wells (feet)</b>	>1320	0
<b>Native Soil Type</b>	Mod permeability	10
<b>Fluid Type</b>	TDS>5000 and	10
<b>Drill Cuttings</b>	Normal Rock	0
<b>Annual Precipitation (inches)</b>		0
<b>Affected Populations</b>		
<b>Presence Nearby Utility Conduits</b>	Not Present	0
<b>Final Score</b>		20

1 Sensitivity Level

**Characteristics / Requirements**

Reserve pit proposed on the southern portion of well pad, measuring 110' wide by 150' long by 12' deep and having the prevailing winds from the west.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 20 Pit Underlayment Required? Y

**Other Observations / Comments**

Landowner not present, agreement in place with El Paso, landowner/operator made prior visit to location, location surface slopes to the east, no known surface water in immediate area, surface has been burned and/or chained to promote grazing for cattle, sandstone outcroppings at surface, cut indicates blasting may need done in pit, drainage re-route around corner number 2, diversion berm along southwest portion of location by reserve pit to prevent sediment from washing onto site and into pit, no other issues were observed regarding construction of this site.

Dennis Ingram  
Evaluator

5/23/2011  
Date / Time

# Application for Permit to Drill Statement of Basis

8/9/2011

Utah Division of Oil, Gas and Mining

Page 1

<b>APD No</b>	<b>API WellNo</b>	<b>Status</b>	<b>Well Type</b>	<b>Surf Owner</b>	<b>CBM</b>
3686	43013507130000	LOCKED	OW	P	No
<b>Operator</b>	EL PASO E&P COMPANY, LP		<b>Surface Owner-APD</b>	Lake Fork Ranch, Inc.	
<b>Well Name</b>	Lake Fork Ranch 4-23B4		<b>Unit</b>		
<b>Field</b>	ALTAMONT		<b>Type of Work</b>	DRILL	
<b>Location</b>	SWSE 23 2S 4W U 1093 FSL 1382 FEL GPS Coord (UTM) 559647E 4459858N				

## Geologic Statement of Basis

El Paso proposes to set 1,000 feet of conductor and 4,500 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 3,700 feet. A search of Division of Water Rights records indicates that there are 12 water wells within a 10,000 foot radius of the center of Section 23. All wells are located approximately 1 mile or more from the proposed location. The wells range between 295 and 1,000 feet in depth and are used for irrigation, stock watering, domestic and oilfield purposes. The proposed casing and cement program should adequately protect ground water in this area.

Brad Hill  
APD Evaluator

6/7/2011  
Date / Time

## Surface Statement of Basis

Brent Brotherson, who owns the Lake Fork Ranch, has been given as the landowner of record on this property. Mr. Brotherson was therefore spoken to on the telephone twice regarding the scheduling on these presites, and explained that he had visited each of the these sites and given input regarding their surface use to El Paso and has entered into a landowner agreement with said operator. El Paso shall therefore comply with that landowner agreement along with the construction cut and fill sheets provided to the Division with the Application to Drill unless given a variance by authorized personnel.

The surface on this site slopes easterly with nearly seventeen feet of cut at the upper end of the reserve pit and around thirteen feet of fill along the eastern portion of the location surface. Sandstone outcroppings at the surface indicate blasting of the pit may need done to construct the reserve pit. A diversion berm is necessary along the southwestern side of the reserve pit and location to prevent sediment from washing into reserve pit and onto location from the slope side. The operator shall therefore address and meet any and all standards during the construction and drilling stage that are approved on this permit, including a 20 mil synthetic liner installed in the reserve pit to prevent the seepage of drilling fluids into underlying soils. If blasting is done to construct the reserve pit a felt liner may also be required to protect the liner. A shallow wash along the southeast side of location will need routed around corner number 2 and tied back into a natural drainage system if possible.

Dennis Ingram  
Onsite Evaluator

5/23/2011  
Date / Time

## Conditions of Approval / Application for Permit to Drill

<b>Category</b>	<b>Condition</b>
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

**RECEIVED: August 09, 2011**

## WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 4/29/2011**API NO. ASSIGNED:** 43013507130000**WELL NAME:** Lake Fork Ranch 4-23B4**OPERATOR:** EL PASO E&P COMPANY, LP (N3065)**PHONE NUMBER:** 713 420-5038**CONTACT:** Maria S. Gomez**PROPOSED LOCATION:** SWSE 23 020S 040W**Permit Tech Review:** ☒**SURFACE:** 1093 FSL 1382 FEL**Engineering Review:** ☒**BOTTOM:** 1093 FSL 1382 FEL**Geology Review:** ☒**COUNTY:** DUCHESNE**LATITUDE:** 40.28899**LONGITUDE:** -110.29829**UTM SURF EASTINGS:** 559647.00**NORTHINGS:** 4459858.00**FIELD NAME:** ALTAMONT**LEASE TYPE:** 4 - Fee**LEASE NUMBER:** Fee**PROPOSED PRODUCING FORMATION(S):** GREEN RIVER-WASATCH**SURFACE OWNER:** 4 - Fee**COALBED METHANE:** NO**RECEIVED AND/OR REVIEWED:**

- ☒ **PLAT**
- ☒ **Bond:** STATE - 400JU0708
- ☐ **Potash**
- ☐ **Oil Shale 190-5**
- ☐ **Oil Shale 190-3**
- ☐ **Oil Shale 190-13**
- ☒ **Water Permit:** 43-8362
- ☐ **RDCC Review:**
- ☒ **Fee Surface Agreement**
- ☐ **Intent to Commingle**
- Commingle Approved**

**LOCATION AND SITING:**

- ☐ **R649-2-3.**
- Unit:**
- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ☒ **Drilling Unit**
- Board Cause No:** Cause 139-84
- Effective Date:** 12/31/2008
- Siting:** 660' Fr Drl U Bdry & 1320' Fr Other Wells
- ☐ **R649-3-11. Directional Drill**

**Comments:** Presite Completed

**Stipulations:**

- 5 - Statement of Basis - bhill
- 8 - Cement to Surface -- 2 strings - hmadonald
- 12 - Cement Volume (3) - ddoucet

**RECEIVED: August 09, 2011**



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

### Permit To Drill

\*\*\*\*\*

**Well Name:** Lake Fork Ranch 4-23B4

**API Well Number:** 43013507130000

**Lease Number:** Fee

**Surface Owner:** FEE (PRIVATE)

**Approval Date:** 8/9/2011

**Issued to:**

EL PASO E&P COMPANY, LP, 1001 Louisiana St., Houston, TX 77002

**Authority:**

Pursuant to Utah Code Ann. §40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-84. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

**Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

**General:**

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**Conditions of Approval:**

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volumes for the 7" casing string shall be determined from actual hole diameter in order to place cement from the pipe setting depths back to 4300' MD as indicated in the submitted drilling plan.

**Additional Approvals:**

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

**Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels  
OR  
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

**Contact Information:**

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office  
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office  
801-231-8956 - after office hours

**Reporting Requirements:**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

**Approved By:**



For John Rogers  
Associate Director, Oil & Gas

**DIVISION OF OIL, GAS AND MINING**

***SPUDDING INFORMATION***

Name of Company EOG RESOURCES INC

Well Name: LAKE FORK RANCH 4-23B4

Api No: 43-013-50713 Lease Type FEE

Section 23 Township 02S Range 04W County DUCHESNE

Drilling Contractor PETE MARTIN DRILLNG RIG # BUCKET

**SPUDDED:**

Date 09/30/2011

Time

How DRY

***Drilling will Commence:***

Reported by WAYNE GARNER

Telephone # (435) 823-1490

Date 09/30/2011 Signed CHD

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee			
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> EL PASO E&P COMPANY, LP		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana St. , Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> LAKE FORK RANCH 4-23B4			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013507130000			
<b>PHONE NUMBER:</b> 713 420-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 10/14/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input checked="" type="checkbox"/> <b>ALTER CASING</b>  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  El Paso plans to set conductor (13 3/8") at 1000' instead of 700' and the surface (13 3/8") at 6000' instead of 4500'.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 10/13/2011 <b>By:</b> <u><i>Derek Duff</i></u>					
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez		<b>PHONE NUMBER</b> 713 420-5038			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr. Regulatory Analyst			
<b>DATE</b> 10/13/2011					

Please Review Attached Conditions of Approval

RECEIVED Oct. 13, 2011





**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43013507130000**

**Both strings should be cemented from setting depth back to surface as conditioned on APD.**

Well name:	<b>43013507130000 Lake Fork Ranch 4-23B4</b>	
Operator:	<b>EL PASO E&amp;P COMPANY, LP</b>	
String type:	Surface	Project ID: 43-013-50713
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.400 ppg  
Internal fluid density: 2.330 ppg

**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 158 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

**Burst:**

Design factor 1.00

Cement top: 1,926 ft

**Burst**

Max anticipated surface pressure: 3,206 psi  
Internal gradient: 0.220 psi/ft  
Calculated BHP 4,526 psi

Annular backup: 2.33 ppg

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

Tension is based on air weight.  
Neutral point: 5,250 ft

**Non-directional string.****Re subsequent strings:**

Next setting depth: 10,704 ft  
Next mud weight: 10.000 ppg  
Next setting BHP: 5,561 psi  
Fracture mud wt: 19.250 ppg  
Fracture depth: 6,000 ft  
Injection pressure: 6,000 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	6000	9.625	40.00	K-55	LT&C	6000	6000	8.75	63518
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1892	2570	1.358	3799	3950	1.04	240	561	2.34 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: October 13, 2011  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 6000 ft, a mud weight of 8.4 ppg. An internal gradient of .121 psi/ft was used for collapse from TD to Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

**RECEIVED** Oct. 13, 2011

Well name:	<b>43013507130000 Lake Fork Ranch 4-23B4</b>	
Operator:	<b>EL PASO E&amp;P COMPANY, LP</b>	
String type:	Conductor	Project ID: 43-013-50713
Location:	DUCHESNE COUNTY	

**Design parameters:****Collapse**

Mud weight: 8.900 ppg  
Design is based on evacuated pipe.

**Minimum design factors:****Collapse:**

Design factor 1.125

**Environment:**

H2S considered? No  
Surface temperature: 74 °F  
Bottom hole temperature: 88 °F  
Temperature gradient: 1.40 °F/100ft  
Minimum section length: 100 ft

**Burst:**

Design factor 1.00

Cement top: 600 ft

**Burst**

Max anticipated surface pressure: 342 psi  
Internal gradient: 0.120 psi/ft  
Calculated BHP 462 psi

No backup mud specified.

**Tension:**

8 Round STC: 1.80 (J)  
8 Round LTC: 1.70 (J)  
Buttress: 1.60 (J)  
Premium: 1.50 (J)  
Body yield: 1.50 (B)

**Non-directional string.**

Tension is based on air weight.  
Neutral point: 868 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1000	13.375	54.50	J-55	ST&C	1000	1000	12.49	12408

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	462	1130	2.444	462	2730	5.90	54.5	514	9.43 J

Prepared Helen Sadik-Macdonald  
by: Div of Oil, Gas & Mining

Phone: 801 538-5357  
FAX: 801-359-3940

Date: October 13, 2011  
Salt Lake City, Utah

**Remarks:**

Collapse is based on a vertical depth of 1000 ft, a mud weight of 8.9 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

**RECEIVED** Oct. 13, 2011

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: El Paso E&P Company, L.P.  
Address: 1001 Louisiana, Room 2730D  
city Houston  
state TX zip 77002

Operator Account Number: N 3065  
Phone Number: (713) 420-5038

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350716	Lake Fork Ranch 3-24B4		SWNW	24	2S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18269	10/13/2011		10/19/11		
Comments: <u>GR-WS</u>							<b>CONFIDENTIAL</b>

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350707	Lake Fork Ranch 3-26B4		NWNW	26	2S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18270	10/12/2011		10/19/11		
Comments: <u>GR-WS</u>							<b>CONFIDENTIAL</b>

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350713	Lake Fork Ranch 4-23B4		SWSE	23	2S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18271	9/30/2011		10/19/11		
Comments: <u>GR-WS</u>							<b>CONFIDENTIAL</b>

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Maria S. Gomez

Name (Please Print)

Maria S. Gomez

Signature

Principle Regulatory Analyst

10/17/2011

Title

Date

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OCT 17 2011

DIV. OF OIL, GAS & MINING

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EL PASO E&P COMPANY, LP		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana St. , Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> LAKE FORK RANCH 4-23B4
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013507130000
<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT		<b>COUNTY:</b> DUCHESNE
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/14/2011	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER:</b> <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  See attached Operations Summary.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 420-5038	<b>TITLE</b> Principle Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/14/2011	

## 1 General

### 1.1 Customer Information

Company	WESTERN
Representative	
Address	

### 1.2 Well Information

Well	LAKE FORK RANCH 4-23B4		
Project	ALTAMONT FIELD	Site	LAKE FORK RANCH 4-23B4
Rig Name/No.	PROPETRO/5, PRECISION DRILLING/406 *	Event	DRILLING LAND
Start Date		End Date	
Spud Date		UWI	LAKE FORK RANCH 4-23B4
Active Datum	KB @6,330.0ft (above Mean Sea Level)		
Afe No./Description	152445/43779 / LAKE FORK RANCH 4-23B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
10/16/2011	18:00 18:30	0.50	MIRU	41		P	40.0	PRE JOB SAFETY MEETING WITH CO. REP.
	18:30 21:30	3.00	MIRU	01		P	40.0	MOVE EQUIPMENT TO LOCATION
	21:30 0:00	2.50	MIRU	01		P	40.0	RIG UP
	0:00 6:00	6.00	DPDCOND	07		P	40.0	DRILLING FROM 40 TO 390 (SPUDDER AT 00:00 10/17/2011)
10/17/2011	6:00 10:30	4.50	DPDCOND	07		P	390.0	SAFETY MEETING, DRILLING FROM 390' TO 750'
	10:30 11:00	0.50	DPDCOND	11		P	540.0	WIRELINE SURVEY
	11:00 18:00	7.00	DPDCOND	07		P	540.0	DRILLING FROM 510 TO 750
	18:00 18:30	0.50	DPDCOND	07		P	750.0	SAFETY MEETING, DRILLING FROM 750 TO 1060
	18:30 2:30	8.00	DPDCOND	15		P	1,060.0	CIRCULATE AND CONDITION MUD
	2:30 5:30	3.00	DPDCOND	12		P	1,060.0	TRIP OUT OF HOLE
	5:30 6:00	0.50	DPDCOND	42		P	1,060.0	RIG UP TO RUN CASING
10/18/2011	6:00 18:00	12.00	DPDCOND	42		P	1,060.0	RUN CASING
	18:00							
11/9/2011	6:00 6:00	24.00	RDMO	02		P	1,030.0	RIGGING DOWN, PREPARE RIG FOR MOVE
11/10/2011	6:00 17:00	11.00	RDMO	02		P	1,030.0	RIG DOWN AND MOVE. PJSM WITH WESTROC, ROCKY MOUNTAIN CRANE, AND PRECISION DRILLING. RIG 95% MOVED.
	17:00 18:00	1.00	RDMO	02		P	1,030.0	WAIT ON DAYLIGHT
11/11/2011	6:00 6:00	24.00	MIRU	01		P	1,047.0	MOVE AND RIG UP. 100% MOVED. 50% RIGGED UP. DID NOT BREAK TOUR.
11/12/2011	6:00 6:00	24.00	MIRU	01		P	1,047.0	RIGGING UP 100% MOVED 70% RIGGED UP
11/13/2011	6:00 15:00	9.00	MIRU	01		P	1,047.0	RIGGING UP, WELD ON 9-5/8"X 13-5/8" WELLHEAD. PRESSURE TEST TO 800 PSI FOR 10 MINUTES. OK.
	15:00 6:00	15.00	CASSURF	28		P	1,047.0	NIPPLE UP DIVERTER SYSTEM.
11/14/2011	6:00 11:00	5.00	CASCOND	28		P	1,047.0	NIPPLE UP DIVERTER
	11:00 15:00	4.00	CASCOND	43		N	1,047.0	REPAIRS TO TOP DRIVE
	15:00 4:15	13.25	CASCOND	30		P	1,047.0	P. TEST DIVERTER. MANIFOLD 250 LOW, 5000 HIGH. PRESSURE TEST ANNULAR, HCR VALVE, MANUAL VALVE, KILL LINE VALVE, CHECK VALVE TO 250 LOW, 2500 HIGH. ALL TESTS HELD FOR 10 MINUTES. CHANGE OUT CHECK VALVE.
	4:15 5:00	0.75	CASCOND	30		P	1,047.0	RIG DOWN WEATHERFORD TESTING
	5:00 6:00	1.00	CASCOND	14		P	1,047.0	PICK UP BHA

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
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<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana St. , Houston, TX, 77002		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>COUNTY:</b> DUCHESNE			
		<b>STATE:</b> UTAH			
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<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 12/16/2011	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> <b>ACIDIZE</b>  <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>  <input type="checkbox"/> <b>CHANGE WELL STATUS</b>  <input type="checkbox"/> <b>DEEPEN</b>  <input type="checkbox"/> <b>OPERATOR CHANGE</b>  <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>  <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>  <input type="checkbox"/> <b>TUBING REPAIR</b>  <input type="checkbox"/> <b>WATER SHUTOFF</b>  <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b> </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> <b>ALTER CASING</b>  <input type="checkbox"/> <b>CHANGE TUBING</b>  <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>  <input type="checkbox"/> <b>FRACTURE TREAT</b>  <input type="checkbox"/> <b>PLUG AND ABANDON</b>  <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>  <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>  <input type="checkbox"/> <b>VENT OR FLARE</b>  <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>  <input type="checkbox"/> <b>OTHER</b> </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> <b>CASING REPAIR</b>  <input type="checkbox"/> <b>CHANGE WELL NAME</b>  <input type="checkbox"/> <b>CONVERT WELL TYPE</b>  <input type="checkbox"/> <b>NEW CONSTRUCTION</b>  <input type="checkbox"/> <b>PLUG BACK</b>  <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b>  <input type="checkbox"/> <b>TEMPORARY ABANDON</b>  <input type="checkbox"/> <b>WATER DISPOSAL</b>  <input type="checkbox"/> <b>APD EXTENSION</b>            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> <b>ACIDIZE</b> <input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b> <input type="checkbox"/> <b>CHANGE WELL STATUS</b> <input type="checkbox"/> <b>DEEPEN</b> <input type="checkbox"/> <b>OPERATOR CHANGE</b> <input type="checkbox"/> <b>PRODUCTION START OR RESUME</b> <input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b> <input type="checkbox"/> <b>TUBING REPAIR</b> <input type="checkbox"/> <b>WATER SHUTOFF</b> <input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	<input type="checkbox"/> <b>ALTER CASING</b> <input type="checkbox"/> <b>CHANGE TUBING</b> <input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b> <input type="checkbox"/> <b>FRACTURE TREAT</b> <input type="checkbox"/> <b>PLUG AND ABANDON</b> <input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b> <input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b> <input type="checkbox"/> <b>VENT OR FLARE</b> <input type="checkbox"/> <b>SI TA STATUS EXTENSION</b> <input type="checkbox"/> <b>OTHER</b>	<input type="checkbox"/> <b>CASING REPAIR</b> <input type="checkbox"/> <b>CHANGE WELL NAME</b> <input type="checkbox"/> <b>CONVERT WELL TYPE</b> <input type="checkbox"/> <b>NEW CONSTRUCTION</b> <input type="checkbox"/> <b>PLUG BACK</b> <input type="checkbox"/> <b>RECOMPLETE DIFFERENT FORMATION</b> <input type="checkbox"/> <b>TEMPORARY ABANDON</b> <input type="checkbox"/> <b>WATER DISPOSAL</b> <input type="checkbox"/> <b>APD EXTENSION</b> OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  Please see attached daily operations report for details.					
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez		<b>PHONE NUMBER</b> 713 420-5038			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Principle Regulatory Analyst			
		<b>DATE</b> 12/16/2011			

## 1 General

### 1.1 Customer Information

Company	WESTERN
Representative	
Address	

### 1.2 Well Information

Well	LAKE FORK RANCH 4-23B4		
Project	ALTAMONT FIELD	Site	LAKE FORK RANCH 4-23B4
Rig Name/No.	PROPETRO/5, PRO PETRO/08	Event	DRILLING LAND
Start Date	11/10/2011	End Date	
Spud Date	11/14/2011	UWI	LAKE FORK RANCH 4-23B4
Active Datum	KB @6,330.0ft (above Mean Sea Level)		
Afe No./Description	152445/43779 / LAKE FORK RANCH 4-23B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
10/16/2011	18:00 18:30	0.50	MIRU	41		P	40.0	PRE JOB SAFETY MEETING WITH CO. REP.
	18:30 21:30	3.00	MIRU	01		P	40.0	MOVE EQUIPMENT TO LOCATION
	21:30 0:00	2.50	MIRU	01		P	40.0	RIG UP
	0:00 6:00	6.00	DPDCOND	07		P	40.0	DRILLING FROM 40 TO 390 (SPUDDER AT 00:00 10/17/2011)
10/17/2011	6:00 10:30	4.50	DPDCOND	07		P	390.0	SAFETY MEETING, DRILLING FROM 390' TO 750'
	10:30 11:00	0.50	DPDCOND	11		P	540.0	WIRELINE SURVEY
	11:00 18:00	7.00	DPDCOND	07		P	540.0	DRILLING FROM 510 TO 750
	18:00 18:30	0.50	DPDCOND	07		P	750.0	SAFETY MEETING, DRILLING FROM 750 TO 1060
	18:30 2:30	8.00	DPDCOND	15		P	1,060.0	CIRCULATE AND CONDITION MUD
	2:30 5:30	3.00	DPDCOND	12		P	1,060.0	TRIP OUT OF HOLE
	5:30 6:00	0.50	DPDCOND	42		P	1,060.0	RIG UP TO RUN CASING
10/18/2011	6:00 18:00	12.00	DPDCOND	42		P	1,060.0	RUN CASING
	18:00							
11/9/2011	6:00 6:00	24.00	RDMO	02		P	1,030.0	RIGGING DOWN, PREPARE RIG FOR MOVE
11/10/2011	6:00 17:00	11.00	RDMO	02		P	1,030.0	RIG DOWN AND MOVE. PJSM WITH WESTROC, ROCKY MOUNTAIN CRANE, AND PRECISION DRILLING. RIG 95% MOVED.
	17:00 18:00	1.00	RDMO	02		P	1,030.0	WAIT ON DAYLIGHT
11/11/2011	6:00 6:00	24.00	MIRU	01		P	1,047.0	MOVE AND RIG UP. 100% MOVED. 50% RIGGED UP. DID NOT BREAK TOUR.
11/12/2011	6:00 6:00	24.00	MIRU	01		P	1,047.0	RIGGING UP 100% MOVED 70% RIGGED UP
11/13/2011	6:00 15:00	9.00	MIRU	01		P	1,047.0	RIGGING UP, WELD ON 9-5/8"X 13-5/8" WELLHEAD. PRESSURE TEST TO 800 PSI FOR 10 MINUTES. OK.
	15:00 6:00	15.00	CASSURF	28		P	1,047.0	NIPPLE UP DIVERTER SYSTEM.
11/14/2011	6:00 11:00	5.00	CASCOND	28		P	1,047.0	NIPPLE UP DIVERTER
	11:00 15:00	4.00	CASCOND	43		P	1,047.0	REPAIRS TO TOP DRIVE
	15:00 4:15	13.25	CASCOND	30		P	1,047.0	P. TEST DIVERTER. MANIFOLD 250 LOW, 5000 HIGH. PRESSURE TEST ANNULAR, HCR VALVE, MANUAL VALVE, KILL LINE VALVE, CHECK VALVE TO 250 LOW, 2500 HIGH. ALL TESTS HELD FOR 10 MINUTES. CHANGE OUT CHECK VALVE.
	4:15 5:00	0.75	CASCOND	30		P	1,047.0	RIG DOWN WEATHERFORD TESTING
	5:00 6:00	1.00	CASCOND	14		P	1,047.0	PICK UP BHA
11/15/2011	6:00 12:00	6.00	DRLSURF	14		P	1,047.0	PICK UP BHA
	12:00 14:30	2.50	DRLSURF	31		P	1,047.0	PRESSURE TEST CASING 1000 PSI / 30 MINUTES, OK.



## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	14:30 16:30	2.00	DRLSURF	45		P	1,047.0	WORK ON PUMPS
	16:30 18:00	1.50	DRLSURF	72		P	1,047.0	DRILLING CMT, FC, AND SHOE
	18:00 19:00	1.00	DRLSURF	07		P	1,047.0	DRILLING FROM 1047 TO 1057. PERFORM F.I.T. MUD WT. 8.5, ADDED SURFACE PRESSURE 218 PSI, EMW 12.2
	19:00 20:30	1.50	DRLSURF	07		P	1,057.0	DRILLING FROM 1057 TO 1139
	20:30 21:30	1.00	DRLSURF	07		P	1,139.0	BUILD VOLUME, WORK ON PUMPS
	21:30 22:30	1.00	DRLSURF	07		P	1,139.0	DRILLING FROM 1139 TO 1230
	22:30 23:00	0.50	DRLSURF	12		P	1,230.0	RIG SERVICE
	23:00 6:00	7.00	DRLSURF	07		P	1,230.0	DRILLING FROM 1230 TO 1850
11/16/2011	6:00 7:00	1.00	DRLSURF	07		P	1,850.0	DRILLING FROM 1,850 TO 1,948
	7:00 23:30	16.50	DRLSURF	45		N	1,948.0	WAIT ON TRACTION MOTOR FOR #1 PUMP AND CHANGE OUT.
	23:30 0:00	0.50	DRLSURF	16		N	1,948.0	TBIH TO 1,948'. WASH LAST STAND DOWN TO BOTTOM.
	0:00 6:00	6.00	DRLSURF	07		P	1,948.0	DRILL AHEAD 1,948' - 2400'
11/17/2011	6:00 9:00	3.00	DRLSURF	07		P	2,400.0	DRILLING FROM 2,400' TO 2,661'.
	9:00 9:30	0.50	DRLSURF	12		P	2,661.0	SERVICE RIG.
	9:30 10:30	1.00	DRLSURF	45		N	2,661.0	WELD BRACKETS ON MUD LINE IN PUMP HOUSE.
	10:30 11:30	1.00	DRLSURF	11		P	3,219.0	WIRELINE SURVEY AT 3188
	11:30 5:00	17.50	DRLSURF	07		P	3,219.0	DRILLING FROM 2,661' TO 3779'
	5:00 6:00	1.00	DRLSURF	11		P	3,779.0	WIRELINE SURVEY AT 3748'
11/18/2011	6:00 10:30	4.50	DRLSURF	07		P	3,800.0	DRILLING FROM 3800' TO 4058'
	10:30 11:00	0.50	DRLSURF	11		P	4,058.0	WIRELINE SURVEY
	11:00 18:00	7.00	DRLSURF	07		P	4,058.0	DRILLING FROM 4058' TO 4527'
	18:00 18:30	0.50	DRLSURF	11		P	4,527.0	WIRELINE SURVEY
	18:30 23:00	4.50	DRLPRD	07		P	4,527.0	DRILLING FROM 4527' TO 4715'
	23:00 23:30	0.50	DRLSURF	12		P	4,715.0	RIG SERVICE
	23:30 6:00	6.50	DRLSURF	07		P	4,715.0	DRILLING FROM 4715' TO 4960'
11/19/2011	6:00 7:30	1.50	DRLSURF	07		P	4,960.0	DRILLING FROM 4960' TO 4993'
	7:30 8:00	0.50	DRLSURF	11		P	4,993.0	WIRELINE SURVEY
	8:00 2:00	18.00	DRLSURF	07		P	4,993.0	DRILLING FROM 4993' TO 5462'
	2:00 6:00	4.00	DRLSURF	56		N	5,462.0	WORK STUCK PIPE @ 5440'
11/20/2011	6:00 8:30	2.50	DRLSURF	51		N	5,462.0	WORK STUCK PIPE
	8:30 10:30	2.00	DRLSURF	53		N	5,462.0	PICK UP SURFACE JARS AND JAR FISH LOOSE
	10:30 12:30	2.00	DRLSURF	51		N	5,462.0	BACK REAM THROUGH TIGHT SPOT, WASH TO BOTTOM
	12:30 19:30	7.00	DRLSURF	07		P	5,462.0	DRILLING FROM 5462' TO 5,589'
	19:30 20:30	1.00	DRLSURF	15		P	5,589.0	MIX AND PUMP 100 VIS. SWEEP
	20:30 6:00	9.50	DRLSURF	13		P	5,589.0	TRIP FOR BIT #2.
11/21/2011	6:00 14:30	8.50	DRLSURF	13		P	5,589.0	TRIP FOR BIT #2
	14:30 5:30	15.00	DRLSURF	07		P	5,559.0	DRILLING FROM 5558' TO 5,964' (30' CORRECTION ON TRIP) '
	5:30 6:00	0.50	DRLSURF	15		P	5,964.0	CIRCULATE BOTTOMS UP
11/22/2011	6:00 7:00	1.00	DRLSURF	15		P	5,964.0	CIRCULATE AND CONDITION MUD
	7:00 12:30	5.50	DRLSURF	13		P	5,964.0	SHORT TRIP TO CASING SHOE
	12:30 14:00	1.50	DRLSURF	15		P	5,964.0	CIRCULATE FOR GYRO
	14:00 17:00	3.00	DRLSURF	11		P	5,964.0	RIG UP AND RUN GYRO WITH VAUGHN ENERGY.
	17:00 18:30	1.50	DRLSURF	14		P	5,964.0	CIRCULATE HIGH VISCOSITY SWEEP, BOTTOMS UP.
	18:30 4:00	9.50	DRLSURF	13		P	5,964.0	PULL OUT TO 5055', CHECK FLOW, PUMP TRIP PILL. PULL OUT LAY DOWN DRILL COLLARS & TOOLS.
	4:00 6:00	2.00	CASSURF	14		P	5,964.0	RIG UP TO RUN CASING
11/23/2011	6:00 11:30	5.50	CASSURF	24		P	5,964.0	RAN 131 JOINTS OF 9-5/8" 40# N-80 LTC CASING. TOTAL LENGTH WITH FLOAT EQUIPMENT 5974.39' SET AT 5964'
	11:30 15:00	3.50	CASSURF	52		P	5,964.0	WORKING CASING TRYING TO ESTABLISH CIRCULATION, MIX MUD.
	15:00 22:00	7.00	CASSURF	24		P	5,964.0	RUN CASING
	22:00 23:00	1.00	CASSURF	15		P	5,964.0	CIRCULATE AND LAY DOWN FILL TOOL

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	23:00 0:30	1.50	CASSURF	15		P	5,964.0	WASH CASING TO BOTTOM
	0:30 3:00	2.50	CASSURF	24		P	5,964.0	RIG DOWN CASING CREW, LOAD OUT TOOLS, RIG UP HALLIBURTON
	3:00 6:00	3.00	CASSURF	25		P	5,964.0	PRESSURE TEST LINES TO 3000 PSI. PUMPED 100 BBLS. OF FRESH WATER, 415 BBLS (1075 SKS. YIELD 2.17) 12.0# LEAD. 103 BBLS (430 SKS. 1.35 YIELD) 14.2# TAIL. DISPLACED WITH 449 BBLS OF 10.0# DRILLING MUD.
11/24/2011	6:00 6:30	0.50	CASSURF	25		P	5,964.0	CEMENT 9-5/8" CASING. PLUG DID NOT BUMP
	6:30 15:30	9.00	CASSURF	26		P	5,964.0	START NIPPLING DOWN DIVERTER STACK, CLEAN PITS, WAIT ON EXTRA 200' OF 1' TUBING.
	15:30 18:00	2.50	CASSURF	42		P	5,964.0	PICKUP 1" TUBING, PUMP 10 BBLS OF FRESH WATER, 34 BBLS. OF NEAT 15.8# 1.16 YIELD W/ 2% CALCIUM CHLORIDE. CIRCULATED CEMENT TO SURFACE. SHUT DOWN AND MONITORED. CEMENT DID NOT FALL.
	18:00 3:00	9.00	CASSURF	29		P	5,964.0	ND 13 5/8" BOPE & REMOVED. CUT OFF WELLHEAD.
	3:00 6:00	3.00	CASSURF	27		P	5,964.0	WELD & TESTED 11" 5M WELLHEAD.
11/25/2011	6:00 19:00	13.00	CASSURF	28		P	5,964.0	NU 11" 5M X 11" 10M B-SECTION. MINU 11" 10M BOPE, ROTATING HEAD.
	19:00 4:00	9.00	CASSURF	30		P	5,964.0	WEATHERFORD TESTED <300 PSI LOW & >2,500 PSI HIGH ON ANNULAR, REMAINDER TO <300 PSI LOW & >5,000 PSI HIGH. REPLACED RING GASKET ON LEAKING CHOKE LINE & RETESTED.
	4:00 6:00	2.00	CASSURF	31		P	5,964.0	PULLED TEST PLUG. SUCCESSFULLY TESTED CASING TO 2,500 PSI FOR 30 MINUTES. RD TESTERS. INSTALLED WEAR BUSHING. FUNCTION TESTED ACCUMULATOR.
11/26/2011	6:00 7:00	1.00	DRLINT1	14		P	5,964.0	PREPARE TO PICK UP BHA
	7:00 9:00	2.00	DRLINT1	14		P	5,964.0	MAKE UP DIRECTIONAL TLS. MOTOR SET AT 1.5"
	9:00 10:30	1.50	DRLINT1	14		P	5,964.0	PICK UP 16 - 61/2" DC'S
	10:30 13:00	2.50	DRLINT1	13		P	5,964.0	RIH TO 5521'
	13:00 14:30	1.50	DRLINT1	17		P	5,964.0	SLIP & CUT DRILL LINE
	14:30 15:00	0.50	DRLINT1	12		P	5,964.0	RIG SER.
	15:00 15:30	0.50	DRLINT1	44		N	5,964.0	REPAIR BOLT IN DRILL LINE ANCHOR PLATE
	15:30 16:30	1.00	DRLINT1	13		P	5,964.0	CONT. TRIP IN HOLE TO 5870'
	16:30 17:30	1.00	DRLINT1	42		P	5,964.0	DRILL OUT CMT. & SHOE TRACK F/ 5870' - 5964'
	17:30 18:00	0.50	DRLINT1	08		P	5,964.0	DRILL F/ 5964' - 5975' CIRC. BTMS. UP
	18:00 18:30	0.50	DRLINT1	33		P	5,975.0	PERFORMED FIT TO 15.4 EMW.
11/27/2011	18:30 6:00	11.50	DRLINT1	07		P	7,000.0	DRILLED 5,975 - 7,000'.
	6:00 15:30	9.50	DRLINT1	07		P	7,028.0	DRILL F/ 7000' - 7587' ( SLIDE F/ 7038' - 7062', 7131' - 7151', 7504' - 7520' )
	15:30 16:00	0.50	DRLINT1	12		P	7,587.0	RIG SER. FUNCTION ANNULAR PREVENTOR C / O 11 SEC'S
11/28/2011	16:00 16:00	0.00	DRLINT1	07		P	8,300.0	DRILLED 7,587 - 8,300'.
	6:00 11:00	5.00	DRLINT1	07		P	8,300.0	DRILL F/ 8300' - 8518'( SLIDE F/ 8380' - 8407' )
	11:00 11:30	0.50	DRLINT1	12		P	8,518.0	RIG SER. FUNCTION LPR C / O 4 SEC'S
11/29/2011	11:30 6:00	18.50	DRLINT1	07		P	8,518.0	DRILLED 8,518 - 9,650'.
	6:00 16:00	10.00	DRLINT1	07		P	9,650.0	DRILL F/ 9650' - 10197' ( SLIDE F/ 9885' - 9917', 10114' - 10156' )
	16:00 16:30	0.50	DRLINT1	12		P	10,197.0	RIG SER. FUNCTION UPR C / O 4 SEC'S
	16:30 1:00	8.50	DRLINT1	07		P	10,197.0	DRILLED 10,197 - 10,756' ICP.
	1:00 3:00	2.00	DRLINT1	15		P	10,756.0	CYCLED PUMPS FOR SURVEY. C & C 11.4 WBM, 11.9 ECD. 2' FLARE MAXED AT 10' ON BOTTOMS UP. GAS HANGING IN AT 9,000 UNITS ONE HOUR AFTER BU.
11/30/2011	3:00 6:00	3.00	DRLINT1	15		P	10,756.0	CHECKED FLOW FOR 10 MINUTES, SLOWED TO 3 GPM. CIRC & INCREASED MW TO 11.7 PPG, 12.2 ECD. 8' MAX FLARE ON BU.
	6:00 6:30	0.50	DRLINT1	15		P	10,756.0	CIRC. COND. MUD & HOLE RAISE MUD DENSITY TO 11.7 PPG BGG 4500 U

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	6:30 9:30	3.00	DRLINT1	13		P	10,756.0	POH TO CASG. SHOE HOLE TIGHT F/ 9172' - 8050' 20 - 30K OVERPULL
	9:30 11:30	2.00	DRLINT1	13		P	10,756.0	RIH TO 10736' WASH LAST 2 STD'S TO BTM. NO TIGHT SPOTS ENCOUNTERED
	11:30 16:00	4.50	DRLINT1	15		P	10,756.0	CIRC. BUG 8906 U 15' FLARE FOR 30 MIN. RAISE MUD DENSITY TO 11.9 PPG BGG 1277 U
	16:00 2:00	10.00	DRLINT1	13		P	10,756.0	TOOH TO LOG. HOLE SLICK.
	2:00 6:00	4.00	EVLINT1	22		P	10,756.0	HELD PJSM. RU HALLIBURTON ELU & LOG QUAD-COMBO WITH SONIC.
12/1/2011	6:00 12:30	6.50	EVLINT1	13		P	10,756.0	RIH WITH RR# 3 CIRC. BTMS. UP AT 3000' & 5960' BUG 8462 U
	12:30 13:00	0.50	EVLINT1	12		P	10,756.0	RIG SER. GREASE CROWN BLOCKS & SWIVEL
	13:00 16:00	3.00	EVLINT1	13		P	10,756.0	CONT. RIH F/ 5960' - 10650' WASH LAST 100' TO BTM. NO TIGHT SPOTS GOING IN HOLE CIRC. BTMS. UP AT 9000' BUG 8520 WITH 15' FLARE.
	16:00 17:00	1.00	CASINT1	13		P	10,756.0	FINISHED TIH TO 10,756' TD.
	17:00 19:30	2.50	CASINT1	15		P	10,756.0	C & C 11.9 WBM. 15' MAX FLARE WITH 9,000 TGU.
	19:30 0:00	4.50	CASINT1	14		P	10,756.0	SLUGGED DP. LD 4 1/2" DP.
	0:00 0:30	0.50	CASINT1	47		N	10,756.0	SCRs DOWN. FOUND LOOSE CIRCUIT BOARD.
	0:30 6:00	5.50	CASINT1	14		P	10,756.0	CONTINUED LD 4 1/2" DP.
12/2/2011	6:00 9:00	3.00	CASINT1	14		P	10,756.0	LAY DOWN BHA
	9:00 9:30	0.50	CASINT1	24		P	10,756.0	PULL WEAR BUSHING
	9:30 10:00	0.50	CASINT1	24		P	10,756.0	CLEAN UP DRILL FLOOR
	10:00 10:30	0.50	CASINT1	24		P	10,756.0	SAFETY MEETING W/ FRANK'S WESTATES
	10:30 11:00	0.50	CASINT1	12		P	10,756.0	RIG SER. FUNCTION BLIND RAMS C / O 5 SEC'S
	11:00 13:00	2.00	CASINT1	24		P	10,756.0	RIG IN FRANK'S WESTATES
	13:00 6:00	17.00	CASINT1	24		P	10,756.0	STAGED-IN-HOLE WITH 7" 29# P-IIO LT&C CASING. INSTALLED ROT HEAD AT 5,900', CBU. CONTINUED SIH WITH CASING, BROKE CIRC AT 20 JOINT INTERVALS. THICK BLACK OIL AT SHAKERS.
12/3/2011	6:00 13:00	7.00	CASINT1	24		P	10,756.0	CONT. CIRCULATING WITH 10% RETURNS ( 2.32 BPM ) AT TIMES NO RETURNS BUILD SURFACE VOLUME PUMPED 50 BBL. LCM PILL WITH NO RESULTS 0 RETURNS FOR LAST 2 HRS.
	13:00 16:00	3.00	CASINT1	24		P	10,756.0	CONT. RUNNING CASG. F/ 9477' - 10756' WASHED LAST 3 JTS. DOWN
	16:00 19:00	3.00	CASINT1	15		P	10,756.0	CIRC. ANNULAR CAP. ( 288 BBLS. ) AT 1.74 BPM WITH 50 - 65% RETURNS BUG 6573 UNITS.
	19:00 21:00	2.00	CASINT1	25		P	10,756.0	LD TAG JOINT / ROT HEAD RUBBER. RD FRANK'S FILL-UP TOOL. INSTALLED LANDING JOINT WITH HANGER / ROT HEAD RUBBER. MU HES' CEMENTING HEAD & PLUMBING. HELD PJSM.
	21:00 0:30	3.50	CASINT1	25		P	10,756.0	TESTED P & L TO 5,000 PSI. PUMPED 50 BBLS FW SPACER. M & P 140 BBLS/340 SKS LEAD SLURRY AT 12 PPG & 2.3 YLD. TAILED 33 BBLS/100 SKS SLURRY AT 12.5 PPG & 1.91 YLD. DISPLACED CEMENT WITH 398 BBLS 11.7 WBM. 60% RETURNS THROUGHOUT. BUMPED WITH 500 PSI OVER AT 2252 HRS, 12/02/2011. HUNG 205K ON WELLHEAD. SHOE AT 10,738'. RD HES.
	0:30 3:00	2.50	CASINT1	42		P	10,756.0	REPLACED TOP-DRIVE SUB WITH 3 1/2" IF. PU 3 1/2" DP, MU 7" X 11" ANNULUS PACK-OFF. INSTALLED PACK-OFF IN HEAD, SET LOCK-DOWNS, TESTED TO 5,000 PSI.
	3:00 6:00	3.00	CASINT1	23		P	10,756.0	TESTED CHOKE MANIFOLD 250 LOW & 10,000 PSI HIGH WHILE REPLACED 4 1/2" RAM BLOCKS TO 3 1/2".
12/4/2011	6:00 8:30	2.50	CASINT1	19		P	10,756.0	REMOVE 7" CASG. RUNNING TOOLS FROM DRILL FLOOR & CATWALK SAFETY MEETING WITH WEATHERFORD

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	8:30 18:00	9.50	CASINT1	19		P	10,756.0	INSTALL TEST PLUG IN WELL HEAD PRESS. TEST UPPER & LOWER PIPE RAMS, INSIDE & OUTSIDE CHOKE & KILL LINE VALVES, STABING VALVE, INSIDE BOP, HYDRAULIC & MANUAL VALVE ON TOP DRIVE, BLIND RAMS TEST PRESSURES 250 PSI LOW & 10K HIGH ANNULAR PREVENTOR & MUD LINE BACK TO MUD PUMPS TO 250 PSI LOW & 4K HIGH ALL TEST 10 MIN. DURATION PULL TEST PLUG PRESS. TEST CASG. TO 2500 PSI FOR 30 MIN. FUNCTION TEST ACCUMULATOR
	18:00 6:00	12.00	DRLINT1	14		P	10,756.0	PUMU PHA & 3 1/2" DP FROM RACKS. TESTED PRO-DRIFT TOOL. FILLED AT 2,500' INTERVALS.
12/5/2011	6:00 12:00	6.00	DRLPRD	14		P	10,756.0	CONT. PICKING UP 3.5" DP F/ 6900' - 10505'
	12:00 14:00	2.00	DRLPRD	17		P	10,756.0	SLIP & CUT DRILL LINE
	14:00 14:30	0.50	DRLPRD	12		P	10,756.0	RIG SER. FUNCTION ANNULAR PREVENTOR C / O 14 SEC'S
	14:30 15:30	1.00	DRLPRD	14		P	10,756.0	CONT. PICKING UP DP WASHED DOWN F/ 10500' - 10645' TAG UP AT 10645'
	15:30 17:00	1.50	DRLPRD	42		P	10,756.0	DRILL CMT. & SHOE TRACK F/ 10645' - 10748' CLEAN DOWN TO 10756'
	17:00 17:30	0.50	DRLPRD	07		P	10,756.0	DRILL F/ 10756' 10758'
	17:30 18:30	1.00	DRLPRD	15		P	10,758.0	CIRC. BTMS. UP
	18:30 19:00	0.50	DRLPRD	33		P	10,758.0	CONDUCT FIT TEST EQUIVALENT TO .8PSI / FT 15.4 PPG DRLG. MUD
	19:00 3:00	8.00	DRLPRD	07		P	10,758.0	DRILL F/ 10758' - 10930'
	3:00 4:00	1.00	DRLPRD	50		N	10,930.0	AT 10930 HAD 18 BBL. TANK GAIN CIRC. GAS OUT THRU GAS BUSTER HAD 12 - 15' FLARE FOR 60 MIN. HIGHEST GAS READING WAS 4221 UNITS BGG 2968 UNITS
	4:00 6:00	2.00	DRLPRD	07		P	10,930.0	DRILL AHEAD 10930' - 10958' GOING THRU GAS BUSTER RAISING MUD DENSITY TO 11.9 PPG
12/6/2011	6:00 9:00	3.00	DRLPRD	07		P	10,958.0	DRILLING FROM 10958' TO 11015'
	9:00 9:30	0.50	DRLPRD	12		P	11,015.0	RIG SER. GREASE CROWN, BLOCKS & SWIVEL
	9:30 6:00	20.50	DRLPRD	07		P	11,015.0	DRILL F/ 11015' - 11519'
12/7/2011	6:00 7:00	1.00	DRLSURF	52		N	11,519.0	LOST FULL RETURNS AT 11,528 (LOST 85 BBLS.)
	7:00 12:00	5.00	DRLPRD	07		P	11,528.0	DRILLING FROM 11,528 TO 11582'
	12:00 12:30	0.50	DRLPRD	12		P	11,582.0	RIG SER. FUNCTION LOWER PIPE RAMS C / O 4 SEC'S
	12:30 18:00	5.50	DRLPRD	07		P	11,582.0	DRILL 11582' - 11677'
	18:00 18:30	0.50	DRLPRD	52		N	11,677.0	LOST COMP. RETURNS AT 11677' ( LOST 104 BBLS. )
	18:30 6:00	11.50	DRLPRD	07		P	11,677.0	DRILL F/ 11677' - 11834' ( BYPASSING SHAKERS )
12/8/2011	6:00 7:30	1.50	DRLPRD	07		P	11,824.0	DRILLING FROM 11824' TO 11868'
	7:30 8:00	0.50	DRLPRD	12		P	11,868.0	RIG SERVICE
	8:00 6:00	22.00	DRLPRD	07		P	11,868.0	DRILLING FROM 11868' TO 12240'
12/9/2011	6:00 13:30	7.50	DRLPRD	07		P	12,240.0	DRILLING FROM 12,240' TO 12,342'
	13:30 14:00	0.50	DRLPRD	12		P	12,342.0	RIG SERVICE
	14:00 6:00	16.00	DRLPRD	07		P	13,342.0	DRILLING FROM 13,342' TO 12580'
12/10/2011	6:00 9:30	3.50	DRLPRD	07		P	12,580.0	DRILLING FROM 12,580' TO 12,650'
	9:30 12:30	3.00	DRLPRD	15		P	12,650.0	CIRCULATE AND CONDITION MUD.
	12:30 15:00	2.50	DRLPRD	13		P	12,650.0	SHORT TRIP TO CASING SHOE
	15:00 16:30	1.50	DRLPRD	15		P	12,650.0	CIRCULATE BOTTOMS UP, DISPLACE HOLE WITH 13.5 PPG MUD.
	16:30 0:00	7.50	DRLPRD	13		P	12,650.0	TRIP OUT OF THE HOLE FOR LOGS
	0:00 0:30	0.50	DRLPRD	13		P	12,650.0	CLEAN UP DRILL FLOOR
	0:30 6:00	5.50	DRLPRD	42		P	12,650.0	SAFETY MEETING W/ HALLIBURTON RIG IN & RUN QUAD COMBO LOGGERS TD@ 12655 ON BTM. AT 0320 HRS.
12/11/2011	6:00 9:00	3.00	CASPRD1	24		P	12,650.0	CLEAR FLOOR, RIG UP CASING CREW

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
12/12/2011	9:00 1:15	16.25	CASPRD1	24		P	12,650.0	RAN 50 JOINTS OF 4-1/2" 13.50# P-110 LTC CASING, TOTAL LENGTH WITH FLOAT EQUIPMENT AND LINER HANGER 2128.33. TRIP IN HOLE WITH 3-1/2" DRILL PIPE. FILL PIPE EVERY 10 STANDS, CIRCULATE BOTTOMS UP EVERY 2000' WASH LAST 2 STD'S TO BTM.
	1:15 3:00	1.75	CASPRD1	15		P	12,650.0	CIRC. COND. MUD & HOLE BUG 8245 UNITS
	3:00 3:30	0.50	CASPRD1	24		P	12,650.0	MAKE UP CMT. MANIFOLD
	3:30 6:00	2.50	CASPRD1	15		P	12,650.0	CONT. CIRC. COND. MUD ( MUD DEHYDRATED )
	6:00 8:30	2.50	CASPRD1	15		P	12,650.0	CIRCULATE AND CONDITION MUD
	8:30 10:30	2.00	CASPRD1	25		P		PRE JOB SAFETY MEETING. RIG UP CEMENT LINES. CEMENT WITH 20 BBL. FRESH WATER SPACER, 47 BBLS.(185 SKS) 14.3 PPG (YIELD 1.45) CEMENT, DISPLACED WITH 10 BBLS FRESH WATER, 98 BBLS OF 13.3 PPG DRILLING MUD. PLUG DOWN @ 10:23. FLOATS HELD, FLOWED BACK 1.5 BBLS.
	10:30 11:30	1.00	CASPRD1	25		P	12,650.0	DROP BALL, RUPTURE DISC AT 4700 PSI, CIRCULATE BALL DOWN AT 3.0 BBLS PER MINUTE, PUMPED 47 BBLS, SEATED BALL AND EXPANDED LINER AT 5500 PSI. TRIED TO PULL TEST, WOULD NOT PULL OVER DP WEIGHT, LINER ALREADY SET. FS @12645' FC@ 12602' MRK. JT.@11638' LINER TOP@ 10537'
	11:30 13:00	1.50	CASPRD1	15		P	12,650.0	CIRCULATE BOTTOMS UP X2, WORKING PIPE. 5 BBLS OF GOOD CEMENT TO SURFACE.
	13:00 14:30	1.50	CASPRD1	13		P	12,650.0	RIG DOWN CEMENT HEAD, PULL 5 STANDS OF DRILL PIPE, PRESSURE TEST LINER TOP 1000 PSI / 10 MINUTES, OK
	14:30 23:00	8.50	CASPRD1	14		P	12,650.0	LAY DOWN DRILL PIPE
	23:00 0:00	1.00	CASPRD1	44		N	12,650.0	REPAIR AIR PROBLEMS ON DRAW WORKS
	0:00 0:30	0.50	CASPRD1	12		P	12,650.0	RIG SER.
	0:30 6:00	5.50	CASPRD1	14		P	12,650.0	CONT. LAYING DOWN DP
12/13/2011	6:00 10:30	4.50	CASPRD1	42		P	12,650.0	CLEAN BOP STACK, DRAIN BUSTER, CLEAR FLOOR OF 3-1/2" TOOLS
	10:30 13:00	2.50	CASPRD1	23		P	12,650.0	CHANGE FROM 3-1/2" TO 4-1/2" RAMS
	13:00 0:00	11.00	CASPRD1	29		P	12,650.0	NIPPLE DOWN 10K BOP STACK
	0:00 4:00	4.00	CASPRD1	27		P	12,650.0	REMOVE B SECTION INSTALL 11" 5K X 11" 5K SPACER SPOOL & 11" 5K X 7 1/16" 10 K TUBING HANGER
	4:00 6:00	2.00	RDMO	02		P	12,650.0	RIG OUT DRLG. RIG
12/14/2011	6:00 6:00	24.00	RDMO	02		P	12,650.0	RIGGING DOWN 90% RIGGED DOWN
12/15/2011	6:00 6:00	24.00	RDMO	02		P	12,650.0	100% MOVED, 10% RIGGED UP

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee			
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>1. TYPE OF WELL</b> Oil Well		<b>8. WELL NAME and NUMBER:</b> LAKE FORK RANCH 4-23B4			
<b>2. NAME OF OPERATOR:</b> EL PASO E&P COMPANY, LP		<b>9. API NUMBER:</b> 43013507130000			
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana St. , Houston, TX, 77002		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>COUNTY:</b> DUCHESNE			
		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 1/2/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text" value="Initial Completion"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="Initial Completion"/>
<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="Initial Completion"/>			
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  Please see attached procedure and WBS for details.					
<b>NAME (PLEASE PRINT)</b> Maria S. Gomez		<b>PHONE NUMBER</b> 713 420-5038			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Principle Regulatory Analyst			
		<b>DATE</b> 12/27/2011			

**Lakefork Ranch 4-23B4  
Initial Completion  
43013507130000**

**The following precautions will be taken until the RCA for the Conover is completed:**

1. Review torque turning and running of the 7" and 4 1/2" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
  - a. Lay a flowline to the flow back tank and keep the valve open.
  - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 4 1/2" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

**Completion Information (Wasatch Formation)**

- Stage 1: RU WL unit with 10K lubricator and test to 10000 psi with water. Perforations from ~12148' – 12549' with ~5000 gallons of 15% HCL acid, ~4500# of 100 mesh sand and ~90000# Inter. Ceramic 20/40.
- Stage 2: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~12235'. Test CBP and casing to 8500 psi. Perforations from ~11932' – 12199' with ~5000 gallons of 15% HCL acid, ~7000# of 100 mesh sand and ~120000# Inter. Ceramic 20/40.
- Stage 3: RU WL unit with 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~11915'. Test CBP and casing to 8500 psi. Perforations from ~11606' – 11901' with ~5000 gallons of 15% HCL acid, ~7000# of 100 mesh sand and ~120000# Inter. Ceramic 20/40.

- Stage 4: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~11590'. Test CBP and casing to 8500 psi. Perforations from ~11336' – 11586' with ~5000 gallons of 15% HCL acid, ~7000# of 100 mesh sand and ~125000# Inter. Ceramic 20/40.
- Stage 5: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~11320'. Test CBP and casing to 8500 psi. Perforations from ~11074' – 11296' with ~5000 gallons of 15% HCL acid, ~6500# of 100 mesh sand and ~115000# Inter. Ceramic 20/40.
- Stage 6: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~11060'. Test CBP and casing to 8500 psi. Perforations from ~10804' – 11054' with ~5000 gallons of 15% HCL acid, ~7000# of 100 mesh sand and ~125000# Inter. Ceramic 20/40.

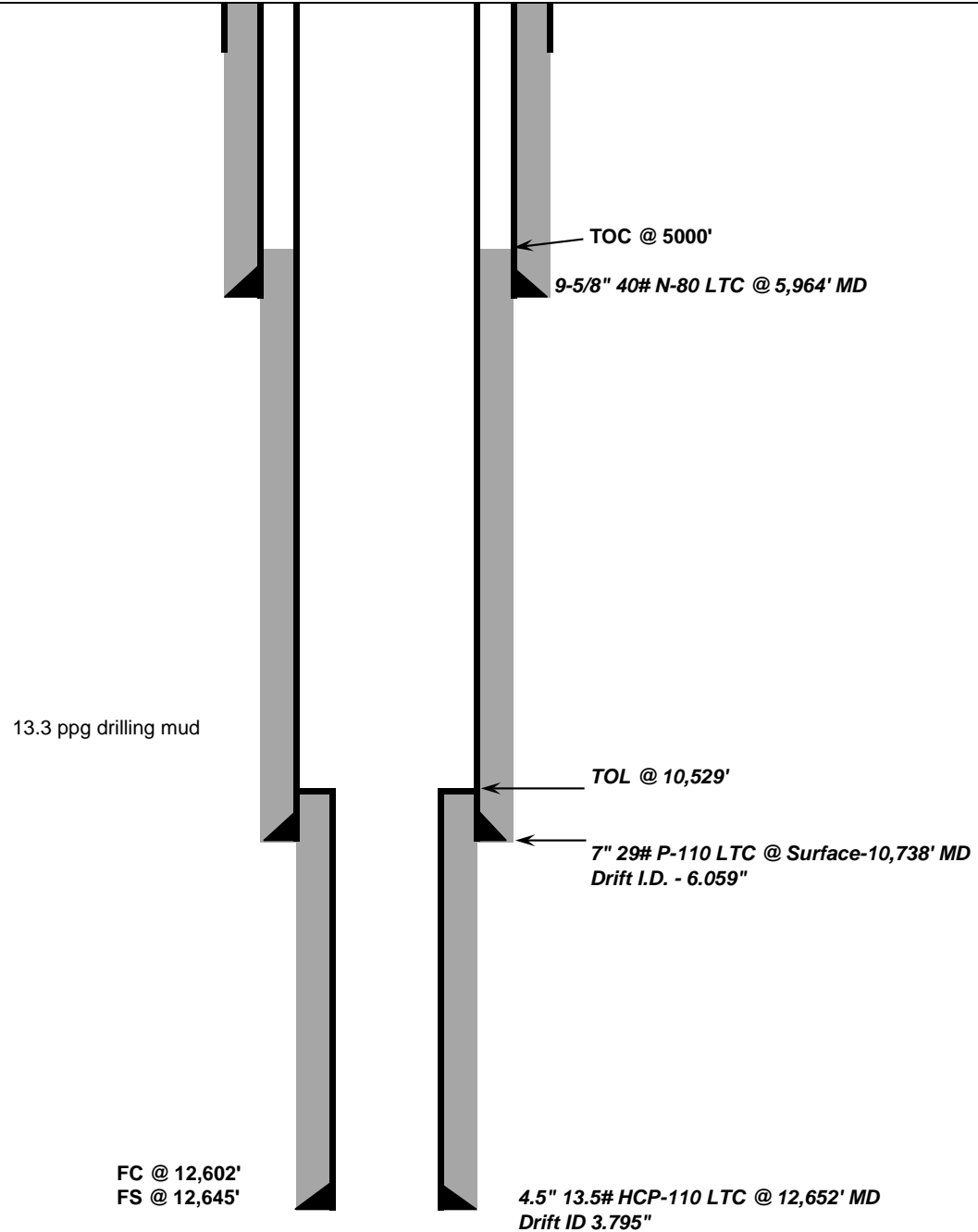




**Current Wellbore Schematic**

Company Name: El Paso Exploration & Production  
 Well Name: Lakefork Ranch 4-23B4  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40° 17' 19.84060" N Long: 110° 17' 56.39778" W  
 Producing Zone(s): Wasatch

Last Updated: 12/27/2011  
 By: Peter Schmeltz  
 TD: 12,652'  
 BHL: \_\_\_\_\_  
 Elevation: \_\_\_\_\_

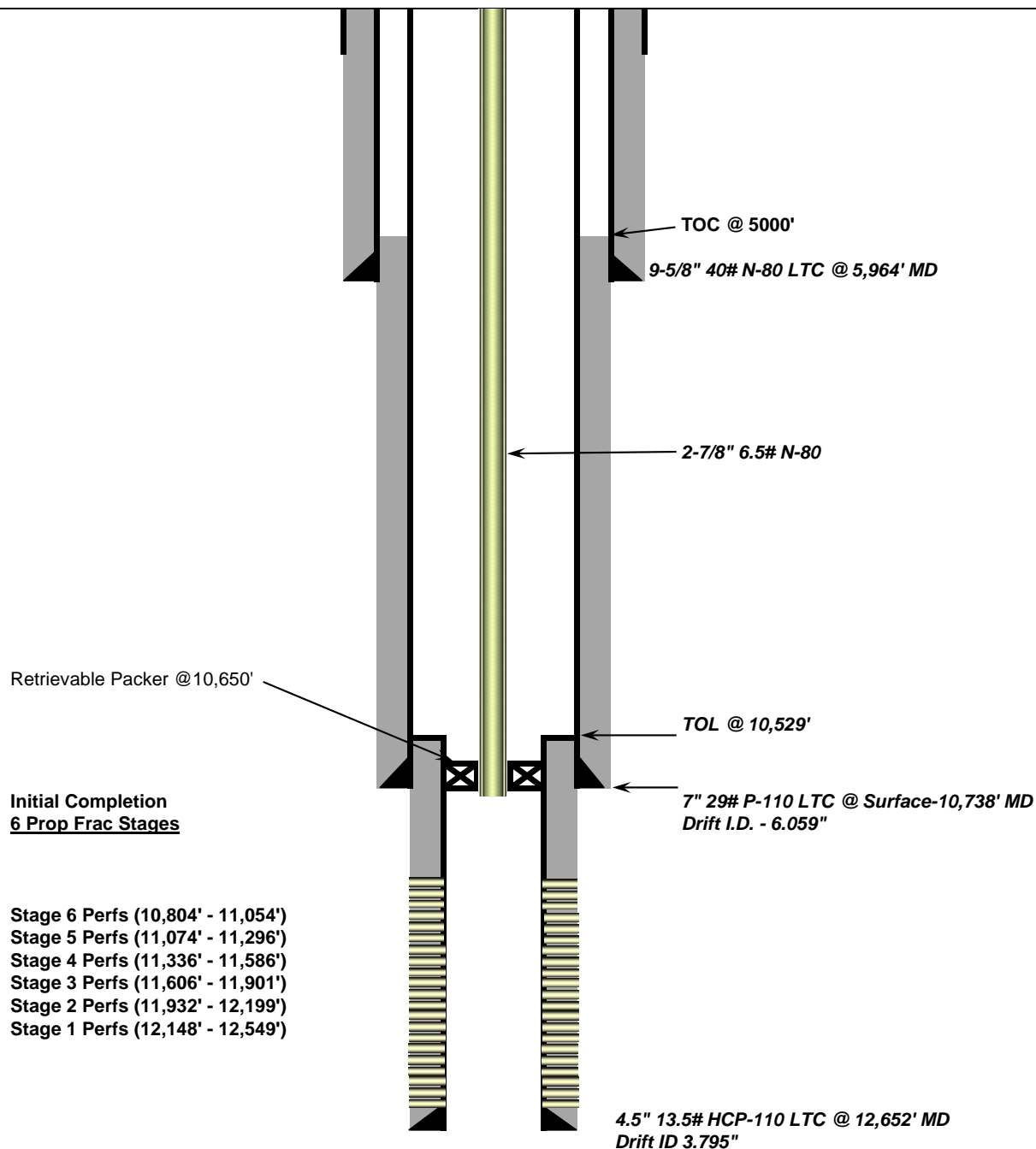




### Initial Completion Wellbore Schematic

Company Name: El Paso Exploration & Production  
 Well Name: Lakefork Ranch 4-23B4  
 Field, County, State: Altamont - Bluebell, Duchesne, Utah  
 Surface Location: Lat: 40° 17' 19.84060" N Long: 110° 17' 56.39778" W  
 Producing Zone(s): Wasatch

Last Updated: 12/27/2011  
 By: Peter Schmeltz  
 TD: 12,652'  
 BHL: \_\_\_\_\_  
 Elevation: \_\_\_\_\_



<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LAKE FORK RANCH 4-23B4	
2. NAME OF OPERATOR: EL PASO E&P COMPANY, LP	9. API NUMBER: 43013507130000	
3. ADDRESS OF OPERATOR: 1001 Louisiana St. , Houston, TX, 77002	PHONE NUMBER: 713 420-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FSL 1382 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 3/5/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Final Report. Well on production.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 March 06, 2012

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 420-5038	TITLE Principle Regulatory Analyst
SIGNATURE N/A		DATE 3/5/2012

## 1 General

### 1.1 Customer Information

Company	WESTERN US
Representative	
Address	

### 1.2 Well Information

Well	LAKE FORK RANCH 4-23B4		
Project	ALTAMONT FIELD	Site	LAKE FORK RANCH 4-23B4
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start Date	11/10/2011	End Date	
Spud Date	11/14/2011	UWI	LAKE FORK RANCH 4-23B4
Active Datum	KB @6,330.0ft (above Mean Sea Level)		
Afe No./Description	152445/43779 / LAKE FORK RANCH 4-23B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
10/16/2011	18:00 18:30	0.50	MIRU	41		P	40.0	PRE JOB SAFETY MEETING WITH CO. REP.
	18:30 21:30	3.00	MIRU	01		P	40.0	MOVE EQUIPMENT TO LOCATION
	21:30 0:00	2.50	MIRU	01		P	40.0	RIG UP
	0:00 6:00	6.00	DPDCOND	07		P	40.0	DRILLING FROM 40 TO 390 (SPUDED AT 00:00 10/17/2011)
10/17/2011	6:00 10:30	4.50	DPDCOND	07		P	390.0	SAFETY MEETING, DRILLING FROM 390' TO 750'
	10:30 11:00	0.50	DPDCOND	11		P	540.0	WIRELINE SURVEY
	11:00 18:00	7.00	DPDCOND	07		P	540.0	DRILLING FROM 510 TO 750
	18:00 18:30	0.50	DPDCOND	07		P	750.0	SAFETY MEETING, DRILLING FROM 750 TO 1060
	18:30 2:30	8.00	DPDCOND	15		P	1,060.0	CIRCULATE AND CONDITION MUD
	2:30 5:30	3.00	DPDCOND	12		P	1,060.0	TRIP OUT OF HOLE
	5:30 6:00	0.50	DPDCOND	42		P	1,060.0	RIG UP TO RUN CASING
10/18/2011	6:00 18:00	12.00	DPDCOND	42		P	1,060.0	RUN CASING
	18:00							
11/9/2011	6:00 6:00	24.00	RDMO	02		P	1,030.0	RIGGING DOWN, PREPARE RIG FOR MOVE
11/10/2011	6:00 17:00	11.00	RDMO	02		P	1,030.0	RIG DOWN AND MOVE. PJSM WITH WESTROC, ROCKY MOUNTAIN CRANE, AND PRECISION DRILLING. RIG 95% MOVED.
	17:00 18:00	1.00	RDMO	02		P	1,030.0	WAIT ON DAYLIGHT
11/11/2011	6:00 6:00	24.00	MIRU	01		P	1,047.0	MOVE AND RIG UP. 100% MOVED. 50% RIGGED UP. DID NOT BREAK TOUR.
11/12/2011	6:00 6:00	24.00	MIRU	01		P	1,047.0	RIGGING UP 100% MOVED 70% RIGGED UP
11/13/2011	6:00 15:00	9.00	MIRU	01		P	1,047.0	RIGGING UP, WELD ON 9-5/8"X 13-5/8" WELLHEAD. PRESSURE TEST TO 800 PSI FOR 10 MINUTES. OK.
	15:00 6:00	15.00	CASSURF	28		P	1,047.0	NIPPLE UP DIVERTER SYSTEM.
11/14/2011	6:00 11:00	5.00	CASCOND	28		P	1,047.0	NIPPLE UP DIVERTER
	11:00 15:00	4.00	CASCOND	43		P	1,047.0	REPAIRS TO TOP DRIVE
	15:00 4:15	13.25	CASCOND	30		P	1,047.0	P. TEST DIVERTER. MANIFOLD 250 LOW, 5000 HIGH. PRESSURE TEST ANNULAR, HCR VALVE, MANUAL VALVE, KILL LINE VALVE, CHECK VALVE TO 250 LOW, 2500 HIGH. ALL TESTS HELD FOR 10 MINUTES. CHANGE OUT CHECK VALVE.
	4:15 5:00	0.75	CASCOND	30		P	1,047.0	RIG DOWN WEATHERFORD TESTING
	5:00 6:00	1.00	CASCOND	14		P	1,047.0	PICK UP BHA
11/15/2011	6:00 12:00	6.00	DRLSURF	14		P	1,047.0	PICK UP BHA
	12:00 14:30	2.50	DRLSURF	31		P	1,047.0	PRESSURE TEST CASING 1000 PSI / 30 MINUTES. OK.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	14:30 16:30	2.00	DRLSURF	45		P	1,047.0	WORK ON PUMPS
	16:30 18:00	1.50	DRLSURF	72		P	1,047.0	DRILLING CMT, FC, AND SHOE
	18:00 19:00	1.00	DRLSURF	07		P	1,047.0	DRILLING FROM 1047 TO 1057. PERFORM F.I.T. MUD WT. 8.5, ADDED SURFACE PRESSURE 218 PSI, EMW 12.2
	19:00 20:30	1.50	DRLSURF	07		P	1,057.0	DRILLING FROM 1057 TO 1139
	20:30 21:30	1.00	DRLSURF	07		P	1,139.0	BUILD VOLUME, WORK ON PUMPS
	21:30 22:30	1.00	DRLSURF	07		P	1,139.0	DRILLING FROM 1139 TO 1230
	22:30 23:00	0.50	DRLSURF	12		P	1,230.0	RIG SERVICE
	23:00 6:00	7.00	DRLSURF	07		P	1,230.0	DRILLING FROM 1230 TO 1850
11/16/2011	6:00 7:00	1.00	DRLSURF	07		P	1,850.0	DRILLING FROM 1,850 TO 1,948
	7:00 23:30	16.50	DRLSURF	45		N	1,948.0	WAIT ON TRACTION MOTOR FOR #1 PUMP AND CHANGE OUT.
	23:30 0:00	0.50	DRLSURF	16		N	1,948.0	TBIH TO 1,948'. WASH LAST STAND DOWN TO BOTTOM.
	0:00 6:00	6.00	DRLSURF	07		P	1,948.0	DRILL AHEAD 1,948' - 2400'
11/17/2011	6:00 9:00	3.00	DRLSURF	07		P	2,400.0	DRILLING FROM 2,400' TO 2,661'.
	9:00 9:30	0.50	DRLSURF	12		P	2,661.0	SERVICE RIG.
	9:30 10:30	1.00	DRLSURF	45		N	2,661.0	WELD BRACKETS ON MUD LINE IN PUMP HOUSE.
	10:30 11:30	1.00	DRLSURF	11		P	3,219.0	WIRELINE SURVEY AT 3188
	11:30 5:00	17.50	DRLSURF	07		P	3,219.0	DRILLING FROM 2,661' TO 3779'
	5:00 6:00	1.00	DRLSURF	11		P	3,779.0	WIRELINE SURVEY AT 3748'
11/18/2011	6:00 10:30	4.50	DRLSURF	07		P	3,800.0	DRILLING FROM 3800' TO 4058'
	10:30 11:00	0.50	DRLSURF	11		P	4,058.0	WIRELINE SURVEY
	11:00 18:00	7.00	DRLSURF	07		P	4,058.0	DRILLING FROM 4058' TO 4527'
	18:00 18:30	0.50	DRLSURF	11		P	4,527.0	WIRELINE SURVEY
	18:30 23:00	4.50	DRLPRD	07		P	4,527.0	DRILLING FROM 4527' TO 4715'
	23:00 23:30	0.50	DRLSURF	12		P	4,715.0	RIG SERVICE
	23:30 6:00	6.50	DRLSURF	07		P	4,715.0	DRILLING FROM 4715' TO 4960'
11/19/2011	6:00 7:30	1.50	DRLSURF	07		P	4,960.0	DRILLING FROM 4960' TO 4993'
	7:30 8:00	0.50	DRLSURF	11		P	4,993.0	WIRELINE SURVEY
	8:00 2:00	18.00	DRLSURF	07		P	4,993.0	DRILLING FROM 4993' TO 5462'
	2:00 6:00	4.00	DRLSURF	56		N	5,462.0	WORK STUCK PIPE @ 5440'
11/20/2011	6:00 8:30	2.50	DRLSURF	51		N	5,462.0	WORK STUCK PIPE
	8:30 10:30	2.00	DRLSURF	53		N	5,462.0	PICK UP SURFACE JARS AND JAR FISH LOOSE
	10:30 12:30	2.00	DRLSURF	51		N	5,462.0	BACK REAM THROUGH TIGHT SPOT, WASH TO BOTTOM
	12:30 19:30	7.00	DRLSURF	07		P	5,462.0	DRILLING FROM 5462' TO 5,589'
	19:30 20:30	1.00	DRLSURF	15		P	5,589.0	MIX AND PUMP 100 VIS. SWEEP
	20:30 6:00	9.50	DRLSURF	13		P	5,589.0	TRIP FOR BIT #2.
11/21/2011	6:00 14:30	8.50	DRLSURF	13		P	5,589.0	TRIP FOR BIT #2
	14:30 5:30	15.00	DRLSURF	07		P	5,559.0	DRILLING FROM 5558' TO 5,964' (30' CORRECTION ON TRIP) '
	5:30 6:00	0.50	DRLSURF	15		P	5,964.0	CIRCULATE BOTTOMS UP
11/22/2011	6:00 7:00	1.00	DRLSURF	15		P	5,964.0	CIRCULATE AND CONDITION MUD
	7:00 12:30	5.50	DRLSURF	13		P	5,964.0	SHORT TRIP TO CASING SHOE
	12:30 14:00	1.50	DRLSURF	15		P	5,964.0	CIRCULATE FOR GYRO
	14:00 17:00	3.00	DRLSURF	11		P	5,964.0	RIG UP AND RUN GYRO WITH VAUGHN ENERGY.
	17:00 18:30	1.50	DRLSURF	14		P	5,964.0	CIRCULATE HIGH VISCOSITY SWEEP, BOTTOMS UP.
	18:30 4:00	9.50	DRLSURF	13		P	5,964.0	PULL OUT TO 5055', CHECK FLOW, PUMP TRIP PILL. PULL OUT LAY DOWN DRILL COLLARS & TOOLS.
	4:00 6:00	2.00	CASSURF	14		P	5,964.0	RIG UP TO RUN CASING
11/23/2011	6:00 11:30	5.50	CASSURF	24		P	5,964.0	RAN 131 JOINTS OF 9-5/8" 40# N-80 LTC CASING. TOTAL LENGTH WITH FLOAT EQUIPMENT 5974.39' SET AT 5964'
	11:30 15:00	3.50	CASSURF	52		P	5,964.0	WORKING CASING TRYING TO ESTABLISH CIRCULATION, MIX MUD.
	15:00 22:00	7.00	CASSURF	24		P	5,964.0	RUN CASING
	22:00 23:00	1.00	CASSURF	15		P	5,964.0	CIRCULATE AND LAY DOWN FILL TOOL

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	23:00 0:30	1.50	CASSURF	15		P	5,964.0	WASH CASING TO BOTTOM
	0:30 3:00	2.50	CASSURF	24		P	5,964.0	RIG DOWN CASING CREW, LOAD OUT TOOLS, RIG UP HALLIBURTON
	3:00 6:00	3.00	CASSURF	25		P	5,964.0	PRESSURE TEST LINES TO 3000 PSI. PUMPED 100 BBLS. OF FRESH WATER, 415 BBLS (1075 SKS. YIELD 2.17) 12.0# LEAD. 103 BBLS (430 SKS. 1.35 YIELD) 14.2# TAIL. DISPLACED WITH 449 BBLS OF 10.0# DRILLING MUD.
11/24/2011	6:00 6:30	0.50	CASSURF	25		P	5,964.0	CEMENT 9-5/8" CASING. PLUG DID NOT BUMP
	6:30 15:30	9.00	CASSURF	26		P	5,964.0	START NIPPLING DOWN DIVERTER STACK, CLEAN PITS, WAIT ON EXTRA 200' OF 1' TUBING.
	15:30 18:00	2.50	CASSURF	42		P	5,964.0	PICKUP 1" TUBING, PUMP 10 BBLS OF FRESH WATER, 34 BBLS. OF NEAT 15.8# 1.16 YIELD W/ 2% CALCIUM CHLORIDE. CIRCULATED CEMENT TO SURFACE. SHUT DOWN AND MONITORED. CEMENT DID NOT FALL.
	18:00 3:00	9.00	CASSURF	29		P	5,964.0	ND 13 5/8" BOPE & REMOVED. CUT OFF WELLHEAD.
	3:00 6:00	3.00	CASSURF	27		P	5,964.0	WELD & TESTED 11" 5M WELLHEAD.
11/25/2011	6:00 19:00	13.00	CASSURF	28		P	5,964.0	NU 11" 5M X 11" 10M B-SECTION. MINU 11" 10M BOPE, ROTATING HEAD.
	19:00 4:00	9.00	CASSURF	30		P	5,964.0	WEATHERFORD TESTED <300 PSI LOW & >2,500 PSI HIGH ON ANNULAR, REMAINDER TO <300 PSI LOW & >5,000 PSI HIGH. REPLACED RING GASKET ON LEAKING CHOKE LINE & RETESTED.
	4:00 6:00	2.00	CASSURF	31		P	5,964.0	PULLED TEST PLUG. SUCCESSFULLY TESTED CASING TO 2,500 PSI FOR 30 MINUTES. RD TESTERS. INSTALLED WEAR BUSHING. FUNCTION TESTED ACCUMULATOR.
11/26/2011	6:00 7:00	1.00	DRLINT1	14		P	5,964.0	PREPARE TO PICK UP BHA
	7:00 9:00	2.00	DRLINT1	14		P	5,964.0	MAKE UP DIRECTIONAL TLS. MOTOR SET AT 1.5"
	9:00 10:30	1.50	DRLINT1	14		P	5,964.0	PICK UP 16 - 61/2" DC'S
	10:30 13:00	2.50	DRLINT1	13		P	5,964.0	RIH TO 5521'
	13:00 14:30	1.50	DRLINT1	17		P	5,964.0	SLIP & CUT DRILL LINE
	14:30 15:00	0.50	DRLINT1	12		P	5,964.0	RIG SER.
	15:00 15:30	0.50	DRLINT1	44		N	5,964.0	REPAIR BOLT IN DRILL LINE ANCHOR PLATE
	15:30 16:30	1.00	DRLINT1	13		P	5,964.0	CONT. TRIP IN HOLE TO 5870'
	16:30 17:30	1.00	DRLINT1	42		P	5,964.0	DRILL OUT CMT. & SHOE TRACK F/ 5870' - 5964'
	17:30 18:00	0.50	DRLINT1	08		P	5,964.0	DRILL F/ 5964' - 5975' CIRC. BTMS. UP
	18:00 18:30	0.50	DRLINT1	33		P	5,975.0	PERFORMED FIT TO 15.4 EMW.
11/27/2011	18:30 6:00	11.50	DRLINT1	07		P	7,000.0	DRILLED 5,975 - 7,000'.
	6:00 15:30	9.50	DRLINT1	07		P	7,028.0	DRILL F/ 7000' - 7587' ( SLIDE F/ 7038' - 7062', 7131' - 7151', 7504' - 7520' )
	15:30 16:00	0.50	DRLINT1	12		P	7,587.0	RIG SER. FUNCTION ANNULAR PREVENTOR C / O 11 SEC'S
11/28/2011	16:00 16:00	0.00	DRLINT1	07		P	8,300.0	DRILLED 7,587 - 8,300'.
	6:00 11:00	5.00	DRLINT1	07		P	8,300.0	DRILL F/ 8300' - 8518'( SLIDE F/ 8380' - 8407' )
	11:00 11:30	0.50	DRLINT1	12		P	8,518.0	RIG SER. FUNCTION LPR C / O 4 SEC'S
11/29/2011	11:30 6:00	18.50	DRLINT1	07		P	8,518.0	DRILLED 8,518 - 9,650'.
	6:00 16:00	10.00	DRLINT1	07		P	9,650.0	DRILL F/ 9650' - 10197' ( SLIDE F/ 9885' - 9917', 10114' - 10156' )
	16:00 16:30	0.50	DRLINT1	12		P	10,197.0	RIG SER. FUNCTION UPR C / O 4 SEC'S
	16:30 1:00	8.50	DRLINT1	07		P	10,197.0	DRILLED 10,197 - 10,756' ICP.
	1:00 3:00	2.00	DRLINT1	15		P	10,756.0	CYCLED PUMPS FOR SURVEY. C & C 11.4 WBM, 11.9 ECD. 2' FLARE MAXED AT 10' ON BOTTOMS UP. GAS HANGING IN AT 9,000 UNITS ONE HOUR AFTER BU.
11/30/2011	3:00 6:00	3.00	DRLINT1	15		P	10,756.0	CHECKED FLOW FOR 10 MINUTES, SLOWED TO 3 GPM. CIRC & INCREASED MW TO 11.7 PPG, 12.2 ECD. 8' MAX FLARE ON BU.
	6:00 6:30	0.50	DRLINT1	15		P	10,756.0	CIRC. COND. MUD & HOLE RAISE MUD DENSITY TO 11.7 PPG BGG 4500 U

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	6:30 9:30	3.00	DRLINT1	13		P	10,756.0	POH TO CASG. SHOE HOLE TIGHT F/ 9172' - 8050' 20 - 30K OVERPULL
	9:30 11:30	2.00	DRLINT1	13		P	10,756.0	RIH TO 10736' WASH LAST 2 STD'S TO BTM. NO TIGHT SPOTS ENCOUNTERED
	11:30 16:00	4.50	DRLINT1	15		P	10,756.0	CIRC. BUG 8906 U 15' FLARE FOR 30 MIN. RAISE MUD DENSITY TO 11.9 PPG BGG 1277 U
	16:00 2:00	10.00	DRLINT1	13		P	10,756.0	TOOH TO LOG. HOLE SLICK.
	2:00 6:00	4.00	EVLINT1	22		P	10,756.0	HELD PJSM. RU HALLIBURTON ELU & LOG QUAD-COMBO WITH SONIC.
12/1/2011	6:00 12:30	6.50	EVLINT1	13		P	10,756.0	RIH WITH RR# 3 CIRC. BTMS. UP AT 3000' & 5960' BUG 8462 U
	12:30 13:00	0.50	EVLINT1	12		P	10,756.0	RIG SER. GREASE CROWN BLOCKS & SWIVEL
	13:00 16:00	3.00	EVLINT1	13		P	10,756.0	CONT. RIH F/ 5960' - 10650' WASH LAST 100' TO BTM. NO TIGHT SPOTS GOING IN HOLE CIRC. BTMS. UP AT 9000' BUG 8520 WITH 15' FLARE.
	16:00 17:00	1.00	CASINT1	13		P	10,756.0	FINISHED TIH TO 10,756' TD.
	17:00 19:30	2.50	CASINT1	15		P	10,756.0	C & C 11.9 WBM. 15' MAX FLARE WITH 9,000 TGU.
	19:30 0:00	4.50	CASINT1	14		P	10,756.0	SLUGGED DP. LD 4 1/2" DP.
	0:00 0:30	0.50	CASINT1	47		N	10,756.0	SCRs DOWN. FOUND LOOSE CIRCUIT BOARD.
	0:30 6:00	5.50	CASINT1	14		P	10,756.0	CONTINUED LD 4 1/2" DP.
12/2/2011	6:00 9:00	3.00	CASINT1	14		P	10,756.0	LAY DOWN BHA
	9:00 9:30	0.50	CASINT1	24		P	10,756.0	PULL WEAR BUSHING
	9:30 10:00	0.50	CASINT1	24		P	10,756.0	CLEAN UP DRILL FLOOR
	10:00 10:30	0.50	CASINT1	24		P	10,756.0	SAFETY MEETING W/ FRANK'S WESTATES
	10:30 11:00	0.50	CASINT1	12		P	10,756.0	RIG SER. FUNCTION BLIND RAMS C / O 5 SEC'S
	11:00 13:00	2.00	CASINT1	24		P	10,756.0	RIG IN FRANK'S WESTATES
	13:00 6:00	17.00	CASINT1	24		P	10,756.0	STAGED-IN-HOLE WITH 7" 29# P-IIO LT&C CASING. INSTALLED ROT HEAD AT 5,900', CBU. CONTINUED SIH WITH CASING, BROKE CIRC AT 20 JOINT INTERVALS. THICK BLACK OIL AT SHAKERS.
12/3/2011	6:00 13:00	7.00	CASINT1	24		P	10,756.0	CONT. CIRCULATING WITH 10% RETURNS ( 2.32 BPM ) AT TIMES NO RETURNS BUILD SURFACE VOLUME PUMPED 50 BBL. LCM PILL WITH NO RESULTS 0 RETURNS FOR LAST 2 HRS.
	13:00 16:00	3.00	CASINT1	24		P	10,756.0	CONT. RUNNING CASG. F/ 9477' - 10756' WASHED LAST 3 JTS. DOWN
	16:00 19:00	3.00	CASINT1	15		P	10,756.0	CIRC. ANNULAR CAP. ( 288 BBLS. ) AT 1.74 BPM WITH 50 - 65% RETURNS BUG 6573 UNITS.
	19:00 21:00	2.00	CASINT1	25		P	10,756.0	LD TAG JOINT / ROT HEAD RUBBER. RD FRANK'S FILL-UP TOOL. INSTALLED LANDING JOINT WITH HANGER / ROT HEAD RUBBER. MU HES' CEMENTING HEAD & PLUMBING. HELD PJSM.
	21:00 0:30	3.50	CASINT1	25		P	10,756.0	TESTED P & L TO 5,000 PSI. PUMPED 50 BBLS FW SPACER. M & P 140 BBLS/340 SKS LEAD SLURRY AT 12 PPG & 2.3 YLD. TAILED 33 BBLS/100 SKS SLURRY AT 12.5 PPG & 1.91 YLD. DISPLACED CEMENT WITH 398 BBLS 11.7 WBM. 60% RETURNS THROUGHOUT. BUMPED WITH 500 PSI OVER AT 2252 HRS, 12/02/2011. HUNG 205K ON WELLHEAD. SHOE AT 10,738'. RD HES.
	0:30 3:00	2.50	CASINT1	42		P	10,756.0	REPLACED TOP-DRIVE SUB WITH 3 1/2" IF. PU 3 1/2" DP, MU 7" X 11" ANNULUS PACK-OFF. INSTALLED PACK-OFF IN HEAD, SET LOCK-DOWNS, TESTED TO 5,000 PSI.
	3:00 6:00	3.00	CASINT1	23		P	10,756.0	TESTED CHOKE MANIFOLD 250 LOW & 10,000 PSI HIGH WHILE REPLACED 4 1/2" RAM BLOCKS TO 3 1/2".
12/4/2011	6:00 8:30	2.50	CASINT1	19		P	10,756.0	REMOVE 7" CASG. RUNNING TOOLS FROM DRILL FLOOR & CATWALK SAFETY MEETING WITH WEATHERFORD

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	8:30 18:00	9.50	CASINT1	19		P	10,756.0	INSTALL TEST PLUG IN WELL HEAD PRESS. TEST UPPER & LOWER PIPE RAMS, INSIDE & OUTSIDE CHOKE & KILL LINE VALVES, STABING VALVE, INSIDE BOP, HYDRAULIC & MANUAL VALVE ON TOP DRIVE, BLIND RAMS TEST PRESSURES 250 PSI LOW & 10K HIGH ANNULAR PREVENTOR & MUD LINE BACK TO MUD PUMPS TO 250 PSI LOW & 4K HIGH ALL TEST 10 MIN. DURATION PULL TEST PLUG PRESS. TEST CASG. TO 2500 PSI FOR 30 MIN. FUNCTION TEST ACCUMULATOR
	18:00 6:00	12.00	DRLINT1	14		P	10,756.0	PUMU PHA & 3 1/2" DP FROM RACKS. TESTED PRO-DRIFT TOOL. FILLED AT 2,500' INTERVALS.
12/5/2011	6:00 12:00	6.00	DRLPRD	14		P	10,756.0	CONT. PICKING UP 3.5" DP F/ 6900' - 10505'
	12:00 14:00	2.00	DRLPRD	17		P	10,756.0	SLIP & CUT DRILL LINE
	14:00 14:30	0.50	DRLPRD	12		P	10,756.0	RIG SER. FUNCTION ANNULAR PREVENTOR C / O 14 SEC'S
	14:30 15:30	1.00	DRLPRD	14		P	10,756.0	CONT. PICKING UP DP WASHED DOWN F/ 10500' - 10645' TAG UP AT 10645'
	15:30 17:00	1.50	DRLPRD	42		P	10,756.0	DRILL CMT. & SHOE TRACK F/ 10645' - 10748' CLEAN DOWN TO 10756'
	17:00 17:30	0.50	DRLPRD	07		P	10,756.0	DRILL F/ 10756' 10758'
	17:30 18:30	1.00	DRLPRD	15		P	10,758.0	CIRC. BTMS. UP
	18:30 19:00	0.50	DRLPRD	33		P	10,758.0	CONDUCT FIT TEST EQUIVALENT TO .8PSI / FT 15.4 PPG DRLG. MUD
	19:00 3:00	8.00	DRLPRD	07		P	10,758.0	DRILL F/ 10758' - 10930'
	3:00 4:00	1.00	DRLPRD	50		N	10,930.0	AT 10930 HAD 18 BBL. TANK GAIN CIRC. GAS OUT THRU GAS BUSTER HAD 12 - 15' FLARE FOR 60 MIN. HIGHEST GAS READING WAS 4221 UNITS BGG 2968 UNITS
	4:00 6:00	2.00	DRLPRD	07		P	10,930.0	DRILL AHEAD 10930' - 10958' GOING THRU GAS BUSTER RAISING MUD DENSITY TO 11.9 PPG
12/6/2011	6:00 9:00	3.00	DRLPRD	07		P	10,958.0	DRILLING FROM 10958' TO 11015'
	9:00 9:30	0.50	DRLPRD	12		P	11,015.0	RIG SER. GREASE CROWN, BLOCKS & SWIVEL
	9:30 6:00	20.50	DRLPRD	07		P	11,015.0	DRILL F/ 11015' - 11519'
12/7/2011	6:00 7:00	1.00	DRLSURF	52		N	11,519.0	LOST FULL RETURNS AT 11,528 (LOST 85 BBLS.)
	7:00 12:00	5.00	DRLPRD	07		P	11,528.0	DRILLING FROM 11,528 TO 11582'
	12:00 12:30	0.50	DRLPRD	12		P	11,582.0	RIG SER. FUNCTION LOWER PIPE RAMS C / O 4 SEC'S
	12:30 18:00	5.50	DRLPRD	07		P	11,582.0	DRILL 11582' - 11677'
	18:00 18:30	0.50	DRLPRD	52		N	11,677.0	LOST COMP. RETURNS AT 11677' ( LOST 104 BBLS. )
	18:30 6:00	11.50	DRLPRD	07		P	11,677.0	DRILL F/ 11677' - 11834' ( BYPASSING SHAKERS )
12/8/2011	6:00 7:30	1.50	DRLPRD	07		P	11,824.0	DRILLING FROM 11824' TO 11868'
	7:30 8:00	0.50	DRLPRD	12		P	11,868.0	RIG SERVICE
	8:00 6:00	22.00	DRLPRD	07		P	11,868.0	DRILLING FROM 11868' TO 12240'
12/9/2011	6:00 13:30	7.50	DRLPRD	07		P	12,240.0	DRILLING FROM 12,240' TO 12,342'
	13:30 14:00	0.50	DRLPRD	12		P	12,342.0	RIG SERVICE
	14:00 6:00	16.00	DRLPRD	07		P	13,342.0	DRILLING FROM 13,342' TO 12580'
12/10/2011	6:00 9:30	3.50	DRLPRD	07		P	12,580.0	DRILLING FROM 12,580' TO 12,650'
	9:30 12:30	3.00	DRLPRD	15		P	12,650.0	CIRCULATE AND CONDITION MUD.
	12:30 15:00	2.50	DRLPRD	13		P	12,650.0	SHORT TRIP TO CASING SHOE
	15:00 16:30	1.50	DRLPRD	15		P	12,650.0	CIRCULATE BOTTOMS UP, DISPLACE HOLE WITH 13.5 PPG MUD.
	16:30 0:00	7.50	DRLPRD	13		P	12,650.0	TRIP OUT OF THE HOLE FOR LOGS
	0:00 0:30	0.50	DRLPRD	13		P	12,650.0	CLEAN UP DRILL FLOOR
	0:30 6:00	5.50	DRLPRD	42		P	12,650.0	SAFETY MEETING W/ HALLIBURTON RIG IN & RUN QUAD COMBO LOGGERS TD@ 12655 ON BTM. AT 0320 HRS.
12/11/2011	6:00 9:00	3.00	CASPRD1	24		P	12,650.0	CLEAR FLOOR, RIG UP CASING CREW



## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
12/12/2011	9:00 1:15	16.25	CASPRD1	24		P	12,650.0	RAN 50 JOINTS OF 4-1/2" 13.50# P-110 LTC CASING, TOTAL LENGTH WITH FLOAT EQUIPMENT AND LINER HANGER 2128.33. TRIP IN HOLE WITH 3-1/2" DRILL PIPE. FILL PIPE EVERY 10 STANDS, CIRCULATE BOTTOMS UP EVERY 2000' WASH LAST 2 STD'S TO BTM.
	1:15 3:00	1.75	CASPRD1	15		P	12,650.0	CIRC. COND. MUD & HOLE BUG 8245 UNITS
	3:00 3:30	0.50	CASPRD1	24		P	12,650.0	MAKE UP CMT. MANIFOLD
	3:30 6:00	2.50	CASPRD1	15		P	12,650.0	CONT. CIRC. COND. MUD ( MUD DEHYDRATED )
	6:00 8:30	2.50	CASPRD1	15		P	12,650.0	CIRCULATE AND CONDITION MUD
	8:30 10:30	2.00	CASPRD1	25		P		PRE JOB SAFETY MEETING. RIG UP CEMENT LINES. CEMENT WITH 20 BBL. FRESH WATER SPACER, 47 BBLS.(185 SKS) 14.3 PPG (YIELD 1.45) CEMENT, DISPLACED WITH 10 BBLS FRESH WATER, 98 BBLS OF 13.3 PPG DRILLING MUD. PLUG DOWN @ 10:23. FLOATS HELD, FLOWED BACK 1.5 BBLS.
	10:30 11:30	1.00	CASPRD1	25		P	12,650.0	DROP BALL, RUPTURE DISC AT 4700 PSI, CIRCULATE BALL DOWN AT 3.0 BBLS PER MINUTE, PUMPED 47 BBLS, SEATED BALL AND EXPANDED LINER AT 5500 PSI. TRIED TO PULL TEST, WOULD NOT PULL OVER DP WEIGHT, LINER ALREADY SET. FS @12645' FC@ 12602' MRK. JT.@11638' LINER TOP@ 10537'
	11:30 13:00	1.50	CASPRD1	15		P	12,650.0	CIRCULATE BOTTOMS UP X2, WORKING PIPE. 5 BBLS OF GOOD CEMENT TO SURFACE.
	13:00 14:30	1.50	CASPRD1	13		P	12,650.0	RIG DOWN CEMENT HEAD, PULL 5 STANDS OF DRILL PIPE, PRESSURE TEST LINER TOP 1000 PSI / 10 MINUTES, OK
	14:30 23:00	8.50	CASPRD1	14		P	12,650.0	LAY DOWN DRILL PIPE
	23:00 0:00	1.00	CASPRD1	44		N	12,650.0	REPAIR AIR PROBLEMS ON DRAW WORKS
	0:00 0:30	0.50	CASPRD1	12		P	12,650.0	RIG SER.
	0:30 6:00	5.50	CASPRD1	14		P	12,650.0	CONT. LAYING DOWN DP
12/13/2011	6:00 10:30	4.50	CASPRD1	42		P	12,650.0	CLEAN BOP STACK, DRAIN BUSTER, CLEAR FLOOR OF 3-1/2" TOOLS
	10:30 13:00	2.50	CASPRD1	23		P	12,650.0	CHANGE FROM 3-1/2" TO 4-1/2" RAMS
	13:00 0:00	11.00	CASPRD1	29		P	12,650.0	NIPPLE DOWN 10K BOP STACK
	0:00 4:00	4.00	CASPRD1	27		P	12,650.0	REMOVE B SECTION INSTALL 11" 5K X 11" 5K SPACER SPOOL & 11" 5K X 7 1/16" 10 K TUBING HANGER
	4:00 6:00	2.00	RDMO	02		P	12,650.0	RIG OUT DRLG. RIG
12/14/2011	6:00 6:00	24.00	RDMO	02		P	12,650.0	RIGGING DOWN 90% RIGGED DOWN
12/15/2011	6:00 6:00	24.00	RDMO	02		P	12,650.0	100% MOVED, 10% RIGGED UP

## 1 General

### 1.1 Customer Information

Company	WESTERN US
Representative	
Address	

### 1.2 Well Information

Well	LAKE FORK RANCH 4-23B4		
Project	ALTAMONT FIELD	Site	LAKE FORK RANCH 4-23B4
Rig Name/No.	PEAK/700 *	Event	COMPLETION LAND
Start Date	12/19/2011	End Date	
Spud Date	11/14/2011	UWI	LAKE FORK RANCH 4-23B4
Active Datum	KB @6,330.0ft (above Mean Sea Level)		
Afe No./Description	152445/43779 / LAKE FORK RANCH 4-23B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
12/20/2011	10:00 12:00	2.00	MIRU	28		N		HELD SAFETY MEETING ON MOVING RIG. FILLED OUT JSA. MOVED RIG FROM THE 3-9B3 TO THE 4-23B4. SPOTTED RIG
	12:00 12:30	0.50	MIRU	54		P		WHILE RIGGING UP RIG. STABILIZER ARM CAUGHT AND WAS BENT.CALLED FOR WELDER.
	12:30 16:00	3.50	WBP	16		P		NIPPLED UP BOP. TESTED PIPE RAMS 300 PSI LOW, 5000 PSI HIGH HELD,TESTED BLIND RAMS NO TEST CHANGED OUT BLIND RAMS MUD SEALS WERE BROKE CALLED FOR NEW SET. SPOTTED IN CAT WALK ,PIPE RACKS AND TBG. SECURED WELL SDFN.
12/21/2011	6:00 7:30	1.50	MIRU	28		P		HELD SAFETY MEETING ON NU BOP AND BODY POSITIONING. FILLED OUT JSA.
	7:30 8:30	1.00	MIRU	01		P		ADJUSTED STABILIZER ARM. RU RIG.
	8:30 8:40	0.17	MIRU	18		P		0 PSI ON 7 " CSG , 0 PSI ON 9 5/8" CSG .
	8:40 11:30	2.83	WBP	16		P		CHANGED OUT BOPE. STARTED ACCUMULATOR BLEW HOLE IN FITTING COMING OFF OF PUMP. CHANGED OUT ACCUMULATOR, PRESSURE TEST BOP TO 250 PSI LOW AND 5,000 PSI HIGH HELD,
	11:30 17:00	5.50	WBP	24		N		TALLIED AND PU 3 3/4 BIT, BIT SUB, 4-2 7/8 DRILL COLLARS, X-OVER, 67-JTS 2 3/8 N-80 EUE TBG, X-OVER AND 137-JTS 2 7/8 L-80 EUE TBG. TOOH W/ 10-JTS OF 2 7/8 TBG. EOT @ 6180'. SECURED WELL SDFN.
12/22/2011	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PUMPING PRESSURE. FILLED OUT JSA.
	7:30 10:00	2.50	WBP	06		P		RIH W/ 10-JTS 2 7/8 L-80 EUE TBG EOT @ 6487'. CIRC OUT DRILLING MUD W/ 251 BBLS, MAX PRESSURE 2000 PSI @ 2 BPM
	10:00 11:30	1.50	WBP	06		P		RIH W/ 33 JTS EOT @ 7529 CRIC OUT DRILLING MUD W/ 80 BBLS MAX PRESSURE 1800 PSI @ 2 BPM
	11:30 13:00	1.50	WBP	06		P		RIH W/ 31-JTS EOT 8565' CIRC OUT DRILLING MUD W/85 BBLS MAX PRESSURE 2000 PSI @ 2 BPM.
	13:00 14:30	1.50	WBP	06		P		RIH W/ 31 JTS EOT 9545' CIRC OUT DRILLING MUD W/ 100 BBLS MAX PRESSURE 2100 PSI @ 2 BPM.
	14:30 16:30	2.00	WBP	06		P		RIH W/ 32 JTS EOT @ 10556 CIRC OUT DRILLING MUD W/115 BBLS MAX PRESSURE 2200 PSI @ 2 BPM.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	16:30 17:30	1.00	WBP	39				PU 31-JTS EOT @ 11563'. TOO H W/ 32-JTS EOT 10526' SECURED WELL SDFN.
12/23/2011	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON RU POWER SWIVEL AND TRIPPING TBG. FILLED OUT JSA.
	7:30 8:30	1.00	WBP	39		P		RIH W/ 32-JTS 2 7/8 N-80 EUE TBG TAGGED LT @ 10550'. PU AND TALLIED 33-JTS 2 7/8 N-80 EUE TAGGED FILL @ 12568 10' OUT ON JT # 328.
	8:30 13:00	4.50	WBP	10		P		RU POWER SWIVEL, CIRC OUT DRILLING MUD DRILLED CEMENT DOWN TO FLOAT COLLAR @ 12620' ROLLED THE HOLE W/ 450 BBLs 2 % KCL RD POWER SWIVEL.
	13:00 17:00	4.00	WBP	24				LD 230 JTS 2 7/8 N-80 EUE TBG EOT @ 6012' SECURED WELL SDFN.
12/24/2011	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON LAYING DOWN TBG. FILLED OUT JSA.
	7:30 11:30	4.00	WBP	24		P		LD 120-JTS 2 7/8 L-80 EUE TBG, X-OVER 66-JTS 2 3/8 N-80 EUE TBG,X-OVER, 4-2 7/8 DRILL COLLARS, BIT SUB AND 3 3/4 BIT.
	11:30 16:00	4.50	WLWORK	22		P		RU LONE WOLF WIRELINE, RAN CBL,GR AND CCL FROM 12605' TO 5000' RD WIRELINE SECURED WELL SDFN.
12/25/2011								NO ACTIVITY
12/26/2011								NO ACTIVITY
12/27/2011								NO ACTIVITY
12/28/2011	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING DOWN RIG AND OVER HEAD HAZARDS FILLED OUT JSA.
	7:30 8:30	1.00	RDMO	02		P		RIGGED DOWN RIG
	8:30 10:00	1.50	WBP	05		P		RAN 1" HOSE 5' DOWN THE 9 5/8 ANN, PUMPED 20 SXS CEM IN ANNULUS AND CELLAR RING. SENT RIG TO THE 4-21B4.
	10:00 12:00	2.00	WBP	18		P		PRESSURE TEST 9 5/8 SURFACE CSG @ 1500 PSI FOR 30 MINS HELD. PRESSURE 7" CSG TO 9200 PSI DOOR SEAL STARTED LEAKING ON BLIND RAMS. SHUT DOWN TO WAIT FOR SEALS
	12:00 14:00	2.00	WHD TRE	42		P		WAIT FOR DOOR SEALS
	14:00 17:00	3.00	WBP	18		P		CHANGED OUT DOOR SEALS ON BLIND RAMS TESTED CSG @ 9500 PSI FOR 30 MINS HELD BLED DOWN WELL SECURED WELL SDFN.
12/29/2011	6:00 6:30	0.50	STG01	28		P		HELD SAFETY MEETING ON HAULING WATER. FILLED OUT JSA.
	6:30 17:00	10.50	STG01	18		P		STARTED FILLING FRAC TANKS
12/30/2011	6:00 6:30	0.50	STG01	28		P		HELD SAFETY MEETING ON HAULING WATER. FILLED OUT JSA.
	6:30 17:00	10.50	STG01	18		P		FILLED FRAC TANKS
12/31/2011	6:00 12:00	6.00	STG01	42		P		WAIT ON PERFORATORS
	12:00 12:30	0.50	STG01	28		P		HELD SAFETY MEETING ON PERFORATING AND ARMING GUNS FILLED OUT JSA.
	12:30 15:00	2.50	STG01	21		P		RU WIRELINE, PERFORATED STAGE 1 FROM 12549' TO 12248'. 69 HOLES. USING 2 3/4" HSC GUNS W/ 15 GM CHARGES. 3 JSFP AND 120 DEGREE PHASING. 1-RUN. ALL PERFS SHOT FROM LONE WOLFS CEMENT BOND LOG DATE 23-DEC- 11. STARTING PRESSURE 1000 PSI FINAL PRESSURE 1000 PSI.
	15:00 17:00	2.00	STG01	16		P		NU STINGERS WELLHEAD ISOLATION TOOL. SECURED WELL SDFN.
1/1/2012								NO ACTIVITY
1/2/2012								NO ACTIVIITY
1/3/2012								NO ACTIVITY
1/4/2012	6:00 7:30	1.50	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	7:30 11:30	4.00	STG01	35		P		FINISH RIGGING UP FRAC EQUIPMENT. PRESSURE TEST LINES @ 9618 PSI. SICP 1740 PSI. BREAK DOWN STAGE 1 PERFS @ 6042 PSI, 4.3 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 25 BPM, MAX RATE 46 BPM, AVG PRESS 6349 PSI MAX PRESS 7143 PSI I.S.I.P 5363 PSI F.G. .87, 5 MIN 5261 PSI, 10 MIN 5201 PSI, 15 MIN 5161 PSI. PUMPED 4894 LBS 100 MESH IN 1/2 PPG STAGE AND 90806 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG,3.5PPG & 4 PPG STAGES. AVG RATE 54.7 BPM, MAX RATE 54.4 BPM. AVG PRESS 6038, MAX PRESS 6291 I.S.I.P. 5680 PSI F.G. .89, 5 MIN 5580 PSI. 10 MIN 5389 PSI, 15 MIN 5309 PSI. SHUT WELL IN. 2476 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	11:30 13:45	2.25	STG02	21		P		RU WIRELINE TRUCK & PERF STAGE 2 PERFORATIONS 11931' TO 12198', 23 NET FEET, 69 TTL SHOTS W/ 2-3/4" HSC GUNS, 15 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PRESSURE DROPPED FROM 5300 PSI AT BEGINNING OF RUN TO 0 PSI AT END OF RUN
	13:45 18:45	5.00	STG02	35		P		PRESSURE TEST LINES @ 9510 PSI. SICP 0 PSI. BREAK DOWN STAGE 2 PERFS @ 3994 PSI, 9.8 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 28.7 BPM, MAX RATE 55.2 BPM, AVG PRESS 4605 PSI MAX PRESS 7035 PSI I.S.I.P 78 PSI F.G. .44, PRESSURE DROPPED TO 0 PSI IN 1-1/2 MINUTES. DUE TO LEAK OFF FRAC WAS REDESIGNED & FORWARDED TO FIELD BY PETER SCHMELTZ. PUMPED 10780 LBS 100 MESH IN 1/2 PPG STAGE AND 77775 LBS TERRAPROP PRO 20/40. IN 1PPG, 1.5 PPG, 2PPG, & 2.5 PPG STAGES. AVG RATE 69.6 BPM, MAX RATE 69.7 BPM. AVG PRESS 6502, MAX PRESS 6890 I.S.I.P. 724 PSI F.G. .83, 5 MIN 3035 PSI. 10 MIN 1845 PSI, 15 MIN 1120 PSI. SHUT WELL IN. 3754 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	18:45 21:00	2.25	STG03	21				RU WIRELINE TRUCK & SET CBP @ 11915'.PERF STAGE 3 PERFORATIONS 11604' TO 11900', 23 NET FEET, 69 TTL SHOTS W/ 2-3/4" HSC GUNS, 15 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. SAW NO PRESSURE CHANGE DURING PERFORATING OPERATIONS
1/5/2012	6:00 8:00	2.00	STG03	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC & WIRELINE SAFETY. FILL OUT & REVIEW JSA
	8:00 11:30	3.50	STG03	35		P		START & WARM UP EQUIPMENT. PRESSURE TEST LINES @ 2000 PSI. SICP 2025 PSI. BREAK DOWN STAGE 3 PERFS @ 5858 PSI, 6.9 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 30.5 BPM, MAX RATE 59.4 BPM, AVG PRESS 6519 PSI MAX PRESS 7371 PSI I.S.I.P 4418 PSI F.G. .81, 5 MIN 2151 PSI, 10 MIN 1595 PSI, 15 MIN 1133 PSI. DUE TO LEAK OFF FRAC DESIGN WAS CHANGED & SENT TO BAKER ENGINEER ON LOCATION BY PETER SCHMELTZ. PUMPED 9345 LBS 100 MESH IN 1/2 PPG STAGE AND 119,177 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG & 3.5PPG STAGES. AVG RATE 68.4 BPM, MAX RATE 68.7 BPM. AVG PRESS 6028, MAX PRESS 6448 I.S.I.P. 5194 PSI F.G. .88, 5 MIN 4550 PSI. 10 MIN 4230 PSI, 15 MIN 4033 PSI. SHUT WELL IN. 3091 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	11:30 13:00	1.50	STG04	21		P		RU WIRELINE TRUCK & PERF STAGE 4 PERFORATIONS 11,332' TO 11,583', 23 NET FEET, 69 TTL SHOTS W/ 2-3/4" HSC GUNS, 15 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PRESSURE DROPPED FROM 4300 PSI AT BEGINNING OF RUN TO 3200 PSI AT END OF RUN

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	13:00 15:00	2.00	STG04	35		P		PRESSURE TEST LINES @ 3750 PSI. BREAK DOWN STAGE 4 PERFS @ 6149 PSI, 8.7 BPM. TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 28.8 BPM, MAX RATE 52.9 BPM, AVG PRESS 5290 PSI MAX PRESS 7340 PSI I.S.I.P 5183 PSI F.G. .89, 5 MIN 4935 PSI, 10 MIN 4205 PSI, 15 MIN 3388 PSI. PUMPED 8,028 LBS 100 MESH IN 1/2 PPG STAGE AND 125,389 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG, 3.5PPG & 4PPG STAGES. AVG RATE 68.4 BPM, MAX RATE 69.6 BPM. AVG PRESS 6089, MAX PRESS 6994 I.S.I.P. 5,692 PSI F.G. .93, 5 MIN 5391 PSI. 10 MIN 5252 PSI, 15 MIN 5155 PSI. SHUT WELL IN. 2952 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE
	15:00 17:00	2.00	STG05	21		P		RU WIRELINE TRUCK & PERF STAGE 5 PERFORATIONS 11,068' TO 11,292', 23 NET FEET, 69 TTL SHOTS W/ 2-3/4" HSC GUNS, 15 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PRESSURE DROPPED FROM 4800 PSI AT BEGINNING OF RUN TO 4600 PSI AT END OF RUN. SDFN
1/6/2012	6:00 7:30	1.50	STG05	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA
	7:30 9:00	1.50	STG05	35		P		PRESSURE TEST LINES @ 9520 PSI. BREAK DOWN STAGE 5 PERFS @ 5730 PSI, 5.1 BPM. TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 33.4 BPM, MAX RATE 60 BPM, AVG PRESS 5949 PSI MAX PRESS 6720 PSI I.S.I.P 5730 PSI F.G. .87, 5 MIN 4573 PSI, 10 MIN 4208 PSI, 15 MIN 3794 PSI. PUMPED 5613 LBS 100 MESH IN 1/2 PPG STAGE AND 122,113 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG, 3.5PPG & 4PPG STAGES. AVG RATE 67.1 BPM, MAX RATE 67.7 BPM. AVG PRESS 5776, MAX PRESS 6926 I.S.I.P. 6027 PSI F.G. .97, 5 MIN 5521 PSI. 10 MIN 5340 PSI, 15 MIN 5159 PSI. SHUT WELL IN. 2871 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE
	9:00 13:30	4.50	STG06	21		P		RU WIRELINE TRUCK & RIH. HAD TO WORK UP & DOWN IN HOLE 1-1/2 HRS WAITING FOR GEL TO BREAK IN ORDER FOR LINE TENSION TO REACH NORMAL LEVELS FOR CORROLATION.SET CBP @ 11064'. PERF STAGE 6 PERFORATIONS 11046" TO 10956. PERF GUN FAILED. POOH & REPAIR SEVERED WIRE ON PERF GUN. RIH & FINISH PERFORATING 10918' TO 10796', 23 TTL NET FEET, 69 TTL SHOTS W/ 2-3/4" HSC GUNS, 15 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PRESSURE DROPPED FROM 4600 PSI AT BEGINNING OF RUN TO 3200 PSI AT END OF RUN
	13:30 15:00	1.50	STG06	35		P		PRESSURE TEST LINES @ 4459 PSI. BREAK DOWN STAGE 6 PERFS @ 6752 PSI, 10.3 BPM. TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 35.7 BPM, MAX RATE 67 BPM, AVG PRESS 6172 PSI MAX PRESS 6505 PSI I.S.I.P 4068 PSI F.G. .81, 5 MIN 3696 PSI, 10 MIN 3419 PSI, 15 MIN 3420 PSI. PUMPED 3221 LBS 100 MESH IN 1/2 PPG STAGE AND 118,441 LBS TERRAPROP PRO 20/40. IN 1PPG, 2PPG, 3PPG, 3.5PPG & 4PPG STAGES. AVG RATE 62.9 BPM, MAX RATE 68.4 BPM. AVG PRESS 5150, MAX PRESS 6244 I.S.I.P. 5333 PSI F.G. .92, 5 MIN 4936 PSI. 10 MIN 4694 PSI, 15 MIN 4551 PSI. SHUT WELL IN. 2941 BBLS TO RECOVER
	15:00 17:30	2.50	RDMO	02		P		RD FRAC EQUIPMENT & STINGER WELL HEAD ISOLATION TOOL. SDFN
	6:00 7:30	1.50	CTU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON COIL TBG SAFETY. FILL OUT & REVIEW JSA
1/7/2012	7:30 10:00	2.50	CTU	10		P		RU COIL TBG UNIT & PUMP EQUIPMENT



## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	10:00 14:00	4.00	CTU	10		P		RIH & DRILL OUT CBP @ 11064, 11320' & 11600'. WHILE POOH TO LINER TOP BEFORE DRILLING OUT PLUG # 4 @ 11915', COIL TBG PARTED ABOVE INJECTOR HEAD @ 10700'.
	14:00 19:00	5.00	CTU	54		P		WORK COIL TBG OUT OF HOLE & ONTO SPOOL. POOH W/ COIL TBG & TOOLS. RD COIL TBG UNIT. SEND COIL TBG UNIT TO ROCK SPRINGS TO REPLACE COIL TBG.
	19:00 6:00	11.00	FB	19		P		FLOW WELL TO FLOW BACK TANK. RECOVERED 251 BBLS WTR FLOWING @ 1100 PSI ON A 16/64" CHOKE
1/8/2012	6:00 6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON CHECKING CHOKE. FILL OUT & REVIEW JSA
	6:30 20:00	13.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 153 MCF GAS, 185 BBLS OIL & 176 BBLS WTR FLOWING 2 800 PSI ON A 16/64" CHOKE
	20:00 22:30	2.50	MIRU	01		P		RU COIL TBG UNIT
	22:30 1:30	3.00	CTU	10		P		RIH W/ MOTOR ASSEMBLY ON 2" COIL. DRILL OUT CBP @ 11890' CTM. WORK IN HOLE TO 12165'. DRILL OUT ASSEMBLY TORQUED UP & MILL HUNG UP
	1:30 6:00	4.50	CTU	53		P		CIRCULATE & WORK COIL TBG, ATTEMPTING TO JAR MILL FREE & CIRCULATING W/ STRAIGHT WTR, N2 & WTR & PULLING UP AS HIGH AS 72K ON COIL TBG. UNABLE TO FREE MILL.
1/9/2012	6:00 6:30	0.50	CTU	28		P		HOLD SAFETY MEETING ON WORK COIL TBG. FILL OUT & REVIEW JSA
	6:30 10:30	4.00	CTU	53		P		CONTINUE CIRCULATING & WORKING COIL TBG. UNABLE TO WORK MILL FREE. DROP BALL & DISCONNECT MOTOR. TOOH W/ COIL TBG, COIL CONNECTOR, JAR, & TOP OF DISCONNECT. LEFT BOTTOM OF DISCONNECT, CIRCULATING SUB, MOTOR & MILL IN HOLE. MILL @ 12165'. TOP OF 2-7/8" OD DISCONNECT @ 12148'.
	10:30 12:30	2.00	RDMO	02		P		RD COIL TBG UNIT & PUMP EQUIPMENT. TURN WELL OVER TO FLOW BACK
	12:30 6:00	17.50	FB	19		P		FLOW WELL TO FLOW BACK TANK
	6:00 7:30	1.50	MIRU	28		P		CT TGSM & JSA ( MOVING EQ., )
1/10/2012	7:30 9:00	1.50	RDMO	18		P		RDMO 1-36 A4 MOVING RIG BLEW BRAKE CANISTER
	9:00 16:00	7.00	MIRU	54		P		REPAIR CANISTER
	16:00 18:00	2.00	MIRU	01		P		MOLRU, RU PUMP & RETURN LINES
	18:00 6:00	12.00	FB	19		P		24 HOUR FLOW BACK 313 MCF 437 OIL 65 WTR CURRENTLY FLOWING ON 16/64 CHOKE WELL HEAD PRESSURE @ 500 PSIG
	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( WASHINGTON HEAD OPERATIONS )
1/11/2012	7:30 9:30	2.00	PRDHEQ	16		P		NU WASHINGTON HEAD, RU WORK FLOOR & TBG EQ.,
	9:30 11:30	2.00	PRDHEQ	06		P		BULL HEAD 350 BBLS BRINE DOWN CSG.
	11:30 17:00	5.50	PRDHEQ	39		P		PUMU & RIH W/ 3-3/4" O/S DRESSED W/ 2-7/8" GPL, 3-1/8" BUMPER SUB, 3-1/8" S. JARS, X/O, 1 JT 2-3/8", X/O, X/O, 3-1/8" INT., X/O, X/O, 66 JTS 2-3/8" 8RD EUE TBG, X/O TO 2-7/8" EUE, 262 JTS 2-7/8" 8RD EUE TBG EOT @ 10,348'. SWIFN CSDFN CT.
	6:00 8:00	2.00	PRDHEQ	28		P		CT TGSM & JSA ( PINCH POINTS PICKING UP TUBING ) CSIP @ 400 PSIG, TSIP @ 300 PSIG BWD
1/12/2012	8:00 9:00	1.00	PRDHEQ	39		P		CIH W/ 24 JTS 2-7/8" TBG TAG @ 11140' L/D 2 JTS
	9:00 10:30	1.50	PRDHEQ	28		P		SAFETY STAND DOWN ( RIGHT AND OBLIGATION TO SHUT DOWN JOB )

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
1/13/2012	10:30 17:00	6.50	PRDHEQ	40		P		PU 2 JTS RU POWER SWIVEL TAG @ 11140' BREAK CIRCULATION WITH 375 BBLS CIRCULATE CLEAN. CLEAN OUT WELLBORE TO 11180'. CIRCULATE CLEAN. ( PLUG PARTS & TRACE OF SAND )
	17:00 18:00	1.00	PRDHEQ	39		P		POOH W/ 26 JTS EOT @ 10,352' SWIFN DRAIN PUMP & RETURN LINES CSDFN CT.
	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POWER SWIVEL OPERATIONS ) TSIP @ 150 PSIG CSIP @ 350 PSIG.
	7:30 11:30	4.00	PRDHEQ	40		P		BWD CIH W/ 26 JTS 2-7/8" 8RD EUE TBG, TAG @ 11,180' RU PWR SWIVEL, BREAK CIRCULATION W/ 85 BBLS, CIRC CLEAN MAKE 6" IN 1 HOUR NOT MAKING HEAD WAY. CIRC CLEAN ( PLUG PARTS & TRACE OF SAND. )
	11:30 15:30	4.00	PRDHEQ	39		P		RIG DOWN POWER SWIVEL, POOH W/ 286 JTS 2-7/8" X/O, 66 JTS, L/D BHA.
1/14/2012	15:30 17:30	2.00	PRDHEQ	39		P		PUMU & RIH W/ 3-3/4" CONCAVE INSERT MILL, BIT SUB, 66 JTS 2-3/8" 8RD EUE TBG, X/O TO 2-7/8", 216 JTS 2-7/8" 8RD EUE TBG, EOT @ 8970'.
	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( RIH W/ TBG ) TSIP @ 150 PSIG, CSIP @ 300 PSIG
	7:30 10:30	3.00	PRDHEQ	39		P		BWD CIH W/ 72 JTS 2-7/8" 8RD EUE TBG TAG @ 11,180' RU POWER SWIVEL, BREAK CIRCULATION W/ 75 BBLS CIRCULATE CLEAN.
	10:30 12:30	2.00	PRDHEQ	06		P		ATTEMPT TO CLEAN OUT. TORQUE UP WITH VERY LITTLE WEIGHT CIRCULATE CLEAN.
	12:00 16:00	4.00	PRDHEQ	39		P		RD PWR SWVL, POOH W/ 288 JTS 2-7/8" X/O TO 2-3/8" 66 JTS, BIT SUB, 4-3/4" MILL. SLIGHTLY ROUNDED ON BTM.
1/15/2012	16:00 18:00	2.00	WLWORK	18		P		MOLRU PIONEER WIRE LINE RIH W/ 3.25 GR/JB, TO 11,627' WIRE LINE STUCK IN GREASE TUBES, WORK FREE POOH RD WIRE LINE, SWIFN RELEASE RIG CREW
	18:00 19:00	1.00	WLWORK	18		P		REHEAD LINE
	6:00 7:30	1.50	WLWORK	28		P		CT TGSM & JSA ( WIRE LINE OPERATIONS )
	7:30 12:00	4.50	WLWORK	18		P		CSIP @ 350 PSIG BWD, RU PIONEER MULTI FINGER CSG CALIPER, RIH TAG @ 11,627' TIGHT SPOTS @ 11404 TO 11406 ( 3.66 I.D ) 11204 TO 11216 ( 3.66 I.D ) 11169 TO 11178 ( 3.75 I.D ) 11139 TO 11144 ( I.D 3.74 ) MAKE 2ND PASS POOH RDMOL W/ PIONEER WIRE LINE EQ.,
	12:00 16:00	4.00	PRDHEQ	39		P		MU & RIH W/ 3-5/8" BIT, BIT SUB, 66 JTS 2-3/8" X/O TO 2-7/8" , 266 JTS 2-7/8" EOT @ 10,473' SWIFN CSDFN CT.
1/16/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( PUMP OPERATIONS )
	7:30 11:00	3.50	PRDHEQ	39		P		TSIP & CSIP @ 400 PSIG, FLOWING OIL UP CASING AND TBG, INSTALL WASHINGTON HEAD RUBBER, PUMP 20 BBLS BRINE DOWN TBG. CIH W/ 37 JTS 2-7/8" TAG 10' IN JT # 303 @ 11,616' SIT DOWN 5 K, FELL THROUGH CIH W/ 15 JTS 2-7/8" 8RD EUE TBG TAG 7' IN JT# 318 @ 12,177'. RU POWER SWIVEL W/ JT # 318
	11:00 16:00	5.00	PRDHEQ	40		P		BREAK CIRCULATION W/ 130 BBLS, CIRCULATE OUT OIL AND GAS W/ TTL OF 402 BBLS, SWIVEL DOWN TO 12,175' 2' IN JT # 321 RIG DOWN POWER SWIVEL.
	16:00 17:30	1.50	PRDHEQ	39		P		POOH W/ 54 JTS EOT @ 10,473 '. SWIFN DRAIN PUMP & RETURN LINES.CSDFN CT
	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POOH W/ TBG ) TSIP & CSIP @ 150 PSIG, BWD.
1/17/2012	7:30 11:30	4.00	PRDHEQ	39		P		COOH W/ 266 JTS 2-7/8" X/O TO 2-3/8", 66 JTS 2-3/8" BIT SUB, 3-5/8" BIT.

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	11:30 15:30	4.00	PRDHEQ	39		P		PUMU & RIH W/ 3-5/8" I.D SHOE, 5' 3-1/2" WASH OVER PUP, 10' PUP, TOP SUB, X/O, BUMPER SUB, 3-1/8" JAR, X/O, 1 JT 2-3/8", X/O, X/O, INTENSIFIER, X/O,X/O, 66 JTS 2-3/8" X/O TO 2-7/8", 264 JTS 2-7/8" 8RD EUE TBG, EOT @ 10,486', SWIFN CSDFN CT.
1/18/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( WASHING OVER FISH )
	7:30 10:30	3.00	PRDHEQ	39		P		TSIP @ 150 PSIG, CSIP @ 300 PSIG, BWD ( THAW OUT AIR ON RIG ) CIH W/ 53 JTS 2-7/8" 8RD EUE TBG, PU 10' PUP JT., SWIVEL UP WITH JT# 318.
	10:30 15:30	5.00	PRDHEQ	06		P		BREAK CIRCULATION WITH BBLS, TAG FISH TOP 8' IN JT 318. @ 12,173'. WASH OVER 17' TO 12,190'. RD POWER SWIVEL.
	15:30 18:00	2.50	PRDHEQ			P		POOH W/ 71 JTS 2-7/8" 8RD EUE TBG. EOT @ 9945' SWIFN, DRAIN PUMP & RETURN LINES. CSDFN CT.
1/19/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( PULLING AND RUNNING TUBING ) CSIP @ 350 PSIG, TSIP @ 150 PSIG, BWD.
	7:30 11:30	4.00	PRDHEQ	39		P		COOH W/ 247 JTS 2-7/8", 66 JTS 2-3/8" L/D WASH OVER ASSEMBLY.
	11:30 17:00	5.50	PRDHEQ	39		P		PUMU & RIH W/ 3-5/8" OVER SHOT DRESSED WITH 2-7/8" GPL, BUMPER SUB , JARS, X/O, 1 JT 2-3/8", X/O,X/O, INTENSIFIER,X/O,X/O,66 JTS 2-3/8" X/O TO 2-7/8", 264 JTS 2-7/8" 8RD EUE TBG. EOT @ 10,479'. SWIFN CSDFN CT.
1/20/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( FISHING OPERATIONS ) TSIP @ 150 CSIP @ 450 BWD.
	7:30 11:00	3.50	PRDHEQ	39		P		CIH W/ 54 JTS 2-7/8" RU TUBING SWIVEL, W/ JT# 319' BREAK CIRCULATION WITH 50 BBLS, CIRCULATE CLEAN W/ 400 BBLS, TAG FISH TOP 6' IN JT # 319' @ 12,175' STOP @ 12,177', SIT 10K DOWN, WORK DOWN TO 12,181'. PUMP GAINED 300# PRES, PULLED OVER 6K, R/D TBG SWIVEL.
	11:00 17:30	6.50	PRDHEQ	39		P		POOH W/ 319 JTS 2-7/8" 8RD EUE TBG, X/O, 66 JTS 2-3/8", LAY DOWN FISHING ASSEMBLY AND FISH, BOTTOM OF MILL WAS ROUNDED. SWIFN CSDFN CT.
1/21/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( RIH W/ TBG ) CSIP @ 350 PSIG, BWD.
	7:30 13:30	6.00	PRDHEQ	39		P		PUMU & RIH W/ 3-5/8" BIT, BIT SUB, 67 JTS 2-3/8", X/O TO 2-7/8", 320 JTS 2-7/8" TAG 15' IN @ 12,190'
	13:30 16:30	3.00	PRDHEQ	10		P		RU POWER SWIVEL, BREAK CIRCULATION W/ 60 BBLS, CIRCULATE CLEAN W/ 350 BBLS.
	16:30 18:00	1.50	PRDHEQ	10		P		ATTEMPT TO CLEAN OUT, SIT DOWN 1K TORQUES UP, WORK FOR 30 MINUTES, PU CIRCULATE CLEAN. GETTING CEMENT, SAND, BLACK FORMATION?, METAL SHAVINGS.
	18:00 19:00	1.00	PRDHEQ	39		P		RD POWER SWIVEL. POOH W/ 53 JTS 2-7/8" EOT @ 10,506' SWIFN CSDFN CT.
1/22/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POOH W/ TBG ) CSIP @ 100 PSIG, TSIP @ 50 PSIG, BWD.
	7:30 12:00	4.50	PRDHEQ	39		P		COOH W/ 267 JTS 2-7/8", X/O TO 2-3/8", 67 JTS 2-3/8", BIT SUB BIT. ( MISSING TEETH ON OUT EDGES )
	12:00 18:00	6.00	PRDHEQ	39		P		MU & RIH W/ MULE SHOE JT., 1 JT 2-3/8" DSS, DSS X EUE X/O, 67 JTS 2-3/8" 8RD EUE, X/O TO 2-7/8", 263 JTS 2-7/8" EOT @ 10436'. SWIFN CSDFN CT.
1/23/2012	6:00 7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( WASHINGTON HEAD RUBBER )
	7:30 11:00	3.50	PRDHEQ	39		P		THAW WELL HEAD CSIP @ 450 PSIG, TSIP @ 350, BWD, CIH W/ 55 JTS TAG 14' OUT JT# 318 ( 12,190' ) RU POWER SWIVEL.
	11:00 16:00	5.00	PRDHEQ	10		P		BREAK CIRCULATION WITH 75 BBLS, CIRCULATE CLEAN W/ 375 BBLS, RETAG @ 12,190' CIRCULATE DOWN TO 12,193' TAG SOLID PU ROTATE 1/2 TURN WASH DOWN TO 12,197'. LOST CIRCULATION 25 BBLS TO REGAIN CIRCULATION. PUMPING 4.5 BPM RETURNING 3/4 BPM. CIRCULATE CLEAN.
	16:00 17:30	1.50	PRDHEQ	39		P		RD POWER SWIVEL POOH W/ 55 JTS 2-7/8" EOT @ 10,436'.

## 2.1 Operation Summary (Continued)

Date	Time Start-End		Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
1/24/2012	6:00	7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( POWER SWIVEL OPERATIONS )
	7:30	8:30	1.00	PRDHEQ	39		P		THAW WELL HEAD CSIP @ 450 PSIG, TSIP @ 350, BWD, CIH W/ 55 JTS TAG 10' OUT JT# 318 ( 12,194' ) RU POWER SWIVEL.
	8:30	17:30	9.00	PRDHEQ	10		P		BREAK CIRCULATION WITH 100 BBLS, CIRCULATE CLEAN W/ 350 BBLS, RE TAG @ 12,194' CIRCULATE DOWN TO 12,198' TAG SOLID ATTEMPT TO WASH DOWN PUMPING 6.5 BPM RETURNING 3.5 BPM. PLUGGED UP AT SURFACE WITH FORMATION ROCKS, PU UNPLUG SURFACE LINES, RIH RE TAG @ 12,196' WORK DOWN TO 12,197'. PLUGGING OFF AT SURFACE SEVERAL TIMES SEVERAL MORE TIMES PU UNPLUG RE TAG @ 12,196' OR 12,197'. PU CIRCULATE CLEAN. GETTING BLACK FORMATION ROCKS, CEMENT, FRAC SAND OCCASIONAL PLUG PARTS.
	17:30	18:30	1.00	PRDHEQ	39		P		RD POWER SWIVEL POOH W/ 55 JTS 2-7/8" EOT @ 10,436'.
1/25/2012	6:00	8:30	2.50	PRDHEQ	28		P		CREW TRAVEL, SAFETY MEETING, & JSA ( THAWING WELL HEAD ) SITP 0, SICP 75# THAWED OUT BOP & CSG VALVES W/ HOTOILER, BWD, CHANGED OUT LEAKING CSG VALVE.
	8:30	12:30	4.00	PRDHEQ	39		P		POOH W/ 263 JTS 2 7/8" EUE TBG - 2 7/8"EUE X 2 3/8"EUE X-O LD 67 JTS 2 3/8"EUE TBG - 2 3/8"EUE X 2 7/8"DSS X-O - 2 JTS 2 3/8"DSS - 2 3/8"MILL SHOE -
	12:30	18:00	5.50	WLWORK	27		P		RU WL RIH W/ 4 1/2" CBP TAG UP @ 11163' COULDN'T GET DOWN, HAD TO WORK FREE, POOH W/ CBP - WAITED FOR SMALLER PLUG - NEW PLUG WAS 3.575 SETTING TOOL WAS 3.64 SETTING TOOL TO BIG, SWIFN CSDFN CT.
1/26/2012	6:00	7:30	1.50	WLWORK	28		P		CT TGSM & JSA ( WIRELINE OPERATIONS )
	7:30	13:30	6.00	WLWORK	22		P		RIH WITH PROTECHNICS LOGGING TOOL, LOG FROM 10,400 TO 12,190' 2ND PASS FROM 12,190' TO 10,400'.
	13:30	17:00	3.50	WLWORK	26		P		RIH W/ 3.6 GR&JB TAG @ 12,190.5' RIH AND SET 4.5 12K CBP @ 12,190' DUMP BAIL 10' CMT ON TOP OF PLUG. RDMOL W/ WIRELINE UNIT.
	17:00	18:00	1.00	PRDHEQ	39		P		PUMU & RIH W/ 5-3/4" SOLID NO-GO, 2 JTS, 4-1/2" P.B.G.A, 6' PUP JT., +45 PSN, 7 JTS, 7" WCS TAC, 100 JTS 2-7/8" 8RD EUE TBG, SWIFN CSDFN CT.
1/27/2012	6:00	7:30	1.50	PRDHEQ	28		P		CT TGSM & JSA ( RIH W/ TUBING )
	7:30	11:30	4.00	PRDHEQ	39		P		TSIP @ 225 CSIP @ 400. ATTEMPT TO BLEED WELL DOWN, PUMP 15 BBLS BRINE DOWN TBG, INSTALL WASHINGTON HEAD RUBBER, CIH W/ 209 JTS 2-7/8" 8RD EUE TBG.
	11:30	15:30	4.00	PRDHEQ	06		P		CIRCULATE WELL CLEAN W/ KCL, N/D BOPE, SET TAC @ 9767' LAND TBG W/ 25 K TENSION, PSN @ 9989 EOT @ 10092'.
	15:30	17:00	1.50	PRDHEQ	18		P		MU PUMP "T" AND FLOW LINES, SWIFN, PREP 3/4" RODS, CSDFN CT.
1/28/2012	6:00	7:30	1.50	INARTLT	28		P		CT TGSM & JSA ( PU & RIH W/ RODS ) CSIP @ 75 PSIG, TSIP @ 0 PSIG BD TBG SEND CSG UP SALES.
	7:30	8:00	0.50	INARTLT	06		P		FLUSH TBG W/ 65 BBLS KCL.
	8:00	11:30	3.50	INARTLT	24		P		PU STROKE TEST 2-1/2" X 1-3/4" X 38' CDI ATTEMPT TO RIH TOP OF PUMP " BRUSHES" HANGING IN WELL HEAD. WAIT ON CDI TO REPAIR PUMP.
	11:30	17:30	6.00	INARTLT	24		P		PU PUMP W/ OUT BRUSHES STROKE TEST MU & RIH W/ 2-1/2" X 1-3/4" X 38' CDI EAGLE "OPTIMIZER" SET UP. 10 1-1/2" WT BARS, 165 3/4" W/G, 116 7/8" W/G, 20 1" W/G, 50 1" SLK, PU P-ROD SWIFN CSDFN CT.
1/29/2012	6:00	7:30	1.50	INARTLT	28		P		CT TGSM & JSA ( ROD TONGS )
	7:30	9:30	2.00	INARTLT	24		P		PREP PU MU & RIH W/ 34 1" SLK RODS, SPACE OUT W/ 1-6', 2-4', 1-2' X 1" PONYS & 1-1/2" X 40' P-ROD. F&T W/ 12 BBLS L/S TO 1000 PSIG GOOD TEST W/ GOOD PUMP ACTION.
	9:30	14:00	4.50	RDMO	02		P		RD RIG, RACK OUT PUMP & RETURN LINES. TOTP

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CONFIDENTIAL

APR 27 2012

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

DIV. OF OIL, GAS & MINING RECOMMENDED REPORT ☐  
(highlight changes)

FORM 8

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						5. LEASE DESIGNATION AND SERIAL NUMBER: Fee			
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR <input type="checkbox"/> OTHER _____						6. IF INDIAN, ALLOTTEE OR TRIBE NAME			
2. NAME OF OPERATOR: El Paso E & P Company, L. P.						7. UNIT or CA AGREEMENT NAME			
3. ADDRESS OF OPERATOR: 1001 Louisiana, #2730B Houston TX 77002						8. WELL NAME and NUMBER: Lake Fork Ranch 4-23B4			
4. LOCATION OF WELL (FOOTAGES): AT SURFACE 1093' FSL & 1382' FEL  AT TOP PRODUCING INTERVAL REPORTED BELOW: 1093' FSL & 1382' FEL  AT TOTAL DEPTH: 1093' FSL & 1382' FEL						9. API NUMBER: 4301350713			
10. FIELD AND POOL, OR WILDCAT: Altamont						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWSE 23 2S 4W U.S.B. & M.			
12. COUNTY: Duchesne						13. STATE: UTAH			
14. DATE SPUNDED: 9/30/2011		15. DATE T.D. REACHED: 12/8/2012		16. DATE COMPLETED: 1/28/2012		17. ELEVATIONS (DF, RKB, RT, GL): 6296' GL			
18. TOTAL DEPTH MD 12,655 TVD 12,655		19. PLUG BACK T.D. MD 12,180 TVD 12,180		20. IF MULTIPLE COMPLETIONS HOW MANY? * no		21. DEPTH BRIDGE MD 12,190 PLUG SET: TVD 12,190			
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each): ✓ CBL/CCL/GR Quad Combo <i>MUD</i>						23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit copy)			
24. CASING AND LINER RECORD (Report all strings set in well)									
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17-1/2"	13-3/8 J-55	54.5	0	1,030		Cl. A 473	262	Surf. (circ)	-----
12-1/4"	9-5/8" N-80	40	0	5,964		Cl. H 1505	518	Surf. (circ)	-----
8-3/4"	7" p110	29	0	10,738		Cl. H 440	173	5450 (calc)	-----
6-1/8"	4-1/2" p110	13.5	10,529	12,653					(liner)
25. TUBING RECORD									
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	
2-7/8"	10,092								
26. PRODUCING INTERVALS					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) Wasatch	10,538	12,650			12,248 12,549	2-3/4	69	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)					11,931 12,196	2-3/4	69	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)					11,604 11,900	2-3/4	69	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)					11,332 11,583	2-3/4	69	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.									
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL							
12248 - 12549		Acidized w/4511 gals 15% HCL. Frac w/4,894 #'s 100 mesh & 90,806 #'s TerraProp Pro 20/40.							
11931 - 12196		Acidized w/5397 gals 15% HCL. Frac w/10,780 #'s 100 mesh & 77,775 #'s TerraProp Pro 20/40.							
11604 - 11900		Acidized w/3956 gals 15% HCL. Frac w/9,345 #'s 100 mesh & 119,177 #'s TerraProp Pro 20/40.							
29. ENCLOSED ATTACHMENTS: (All logs submitted by Service Companies)								30. WELL STATUS:	
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS				<input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input checked="" type="checkbox"/> OTHER Items #27 & #28 continued on attachment	
								Producing	

## 31. INITIAL PRODUCTION

## INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 1/7/2012		TEST DATE: 2/25/2012		HOURS TESTED: 24		TEST PRODUCTION RATES. →		OIL - BBL: 164		GAS - MCF 221		WATER - BBL: 230		PROD. METHOD: Flowing	
CHOKE SIZE:	TBG. PRESS. 200	CSG. PRESS. 41	API GRAVITY	BTU - GAS	GAS/OIL RATIO 1	24 HR PRODUCTION RATES →	OIL - BBL: 164	GAS - MCF 221	WATER - BBL 230	INTERVAL STATUS open					

## INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD
CHOKE SIZE	TBG. PRESS.	CSG. PRESS	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

## INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD
CHOKE SIZE	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

## INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED		TEST DATE		HOURS TESTED		TEST PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	PROD. METHOD
CHOKE SIZE	TBG PRESS.	CSG PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL	GAS - MCF	WATER - BBL	INTERVAL STATUS

## 32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

Sold

## 33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc	Name	Top (Measured Depth)
				Lower Green River Wasatch	8,837 10,583

## 35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) Linda RenkenTITLE Regulatory Analyst

SIGNATURE

Linda RenkenDATE 4/26/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

\* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

\*\* ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining  
1594 West North Temple, Suite 1210  
Box 145801  
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940



**Attachment to Well Completion Report**

**Form 8 Dated April 26, 2012**

**Well Name: Lake Fork Ranch 4-23B4**

**Items #27 and #28 Continued**

**27. Perforation Record**

<b>Interval (Top/Bottom – MD)</b>	<b>Size</b>	<b>No. of Holes</b>	<b>Perf. Status</b>
<b>11068 – 11292</b>	<b>2-3/4"</b>	<b>69</b>	<b>Open</b>
<b>10796 – 11046</b>	<b>2-3/4"</b>	<b>69</b>	<b>Open</b>

**28. Acid, Fracture, Treatment, Cement Squeeze, Etc.**

<b>Depth Interval</b>	<b>Amount and Type of Material</b>
<b>11332 - 11583</b>	<b>Acidized w/5813 gals 15% HCL. Frac w/8028 #'s white 100 mesh, and 125,389 #'s TerraProp Prop, 20/40.</b>
<b>11068 - 11292</b>	<b>Acidized w/5515 gals 15% HCL. Frac w/5613 #'s white 100 mesh, and 122,113 #'s TerraProp Prop, 20/40.</b>
<b>10796 - 11046</b>	<b>Acidized w/5779 gals 15% HCL. Frac w/3221 #'s white 100 mesh, and 118,441#'s TerraProp Prop, 20/40.</b>
<b>12180 – 12190</b>	<b>Set CIBP and dumped 10' cement on top.</b>

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**APR 27 2012**

**DIV. OF OIL, GAS & MINING**

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

**ENTITY ACTION FORM**

Operator: El Paso E&P Company, L.P. Operator Account Number: N 3065  
Address: 1001 Louisiana, Room 2730D  
city Houston  
state TX zip 77002 Phone Number: (713) 420-5038

**Well 1**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350716	Lake Fork Ranch 3-24B4		SWNW	24	2S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
E	18269	18269	10/13/2011			3/23/2012	
Comments: Initial Completion to the Wasatch WSTC <b>CONFIDENTIAL</b> 5/16/2012							

**Well 2**

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301350713	Lake Fork Ranch 4-23B4		SWSE	23	2S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
E	18271	18271	9/30/2011			1/7/12	
Comments: Initial Completion to Wasatch WSTC <b>CONFIDENTIAL</b> 5/16/2012							

**Well 3**

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
Comments:							

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Maria S. Gomez

Name (Please Print)

*Maria S Gomez*

Signature

Principle Regulatory Analyst

4/30/2012

Title

Date

APR 30 2012

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET (for state use only)**

**ROUTING**  
**CDW**

**X - Change of Operator (Well Sold)**

**Operator Name Change/Merger**

The operator of the well(s) listed below has changed, effective:

**6/1/2012**

**FROM: (Old Operator):**

N3065- El Paso E&P Company, L.P.  
 1001 Louisiana Street  
 Houston, TX. 77002

Phone: 1 (713) 997-5038

**TO: ( New Operator):**

N3850- EP Energy E&P Company, L.P.  
 1001 Louisiana Street  
 Houston, TX. 77002

Phone: 1 (713) 997-5038

**CA No.**

**Unit:**

**N/A**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

**OPERATOR CHANGES DOCUMENTATION**

Enter date after each listed item is completed

- (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 6/25/2012
- (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 6/25/2012
- The new company was checked on the **Department of Commerce, Division of Corporations Database** on: 6/27/2012
- Is the new operator registered in the State of Utah:          Business Number: 2114377-0181
- (R649-9-2) Waste Management Plan has been received on: Yes
- Inspections of LA PA state/fee well sites complete on: N/A
- Reports current for Production/Disposition & Sundries on: 6/25/2012
- Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM N/A BIA Not Received
- Federal and Indian Units:**  
The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
- Federal and Indian Communization Agreements ("CA"):**  
The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
- Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: Second Oper Chg

**DATA ENTRY:**

- Changes entered in the **Oil and Gas Database** on: 6/29/2012
- Changes have been entered on the **Monthly Operator Change Spread Sheet** on: 6/29/2012
- Bond information entered in RBDMS on: 6/29/2012
- Fee/State wells attached to bond in RBDMS on: 6/29/2012
- Injection Projects to new operator in RBDMS on: 6/29/2012
- Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

**BOND VERIFICATION:**

- Federal well(s) covered by Bond Number: 103601420
- Indian well(s) covered by Bond Number: 103601473
- (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 400JU0705
- The **FORMER** operator has requested a release of liability from their bond on: N/A

**LEASE INTEREST OWNER NOTIFICATION:**

- (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 6/29/2012

**COMMENTS:**

Disposal and Injections wells will be moved when UIC 5 is received.

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

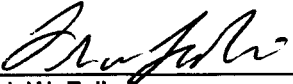
1. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: Multiple Leases
2. NAME OF OPERATOR: El Paso E&P Company, L.P. Attn: Maria Gomez		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana CITY Houston STATE TX ZIP 77002		7. UNIT or CA AGREEMENT NAME:
4. LOCATION OF WELL FOOTAGES AT SURFACE: See Attached		8. WELL NAME and NUMBER: See Attached
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:		9. API NUMBER:
COUNTY:		10. FIELD AND POOL, OR WILDCAT: See Attached
STATE: UTAH		

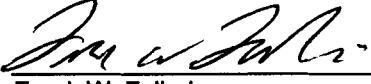
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: Change of Name/Operator
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

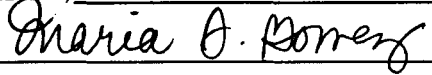
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please be advised that El Paso E&P Company, L.P. (current Operator) has changed names to EP Energy E&P Company, L.P. (new Operator) effective June 1, 2012 and that EP Energy E&P Company, L.P. is considered the new operator of the attached well locations.

EP Energy E&P Company, L.P. is responsible under the terms and conditions of the lease(s) for the operations conducted upon leased lands. Bond coverage is provided by the State of Utah Statewide Blanket Bond No. 400JU0705, Bureau of Land Management Nationwide Bond No. 103601420, and Bureau of Indian Affairs Nationwide Bond No. 103601473.

  
Frank W. Falleri  
Vice President  
El Paso E&P Company, L.P.

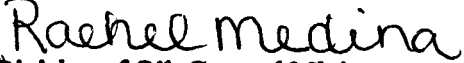
  
Frank W. Falleri  
Sr. Vice President  
EP Energy E&P Company, L.P.

NAME (PLEASE PRINT) Maria S. Gomez	TITLE Principal Regulatory Analyst
SIGNATURE 	DATE 6/22/2012

(This space for State use only)

RECEIVED

JUN 25 2012

APPROVED 6/29/2012  
  
Rachel Medina  
Division of Oil, Gas and Mining  
Earlene Russell, Engineering Technician  
Rachel Medina

(See Instructions on Reverse Side)

DIV. OF OIL, GAS & MINING

Well Name	Sec	TWP	RNG	API Number	Entity	Lease Type	Well Type	Well Status	Conf
DWR 3-17C6	17	030S	060W	4301350070		14204621118	OW	APD	C
LAKEWOOD ESTATES 3-33C6	33	030S	060W	4301350127		1420H621328	OW	APD	C
YOUNG 3-15A3	15	010S	030W	4301350122		FEE	OW	APD	C
WHITING 4-1A2	01	010S	020W	4301350424		Fee	OW	APD	C
EL PASO 4-34A4	34	010S	040W	4301350720		Fee	OW	APD	C
YOUNG 2-2B1	02	020S	010W	4304751180		FEE	OW	APD	C
LAKE FORK RANCH 3-10B4	10	020S	040W	4301350712	18221	Fee	OW	DRL	C
LAKE FORK RANCH 4-26B4	26	020S	040W	4301350714	18432	Fee	OW	DRL	C
LAKE FORK RANCH 4-24B4	24	020S	040W	4301350717	18315	Fee	OW	DRL	C
Cook 4-14B3	14	020S	030W	4301351162	18449	Fee	OW	DRL	C
Peterson 4-22C6	22	030S	060W	4301351163	18518	Fee	OW	DRL	C
Lake Fork Ranch 4-14B4	14	020S	040W	4301351240	99999	Fee	OW	DRL	C
Melesco 4-20C6	20	030S	060W	4301351241	99999	Fee	OW	DRL	C
Peck 3-13B5	13	020S	050W	4301351364	99999	Fee	OW	DRL	C
Jensen 2-9C4	09	030S	040W	4301351375	99999	Fee	OW	DRL	C
El Paso 3-5C4	05	030S	040W	4301351376	18563	Fee	OW	DRL	C
ULT 6-31	31	030S	020E	4304740033		FEE	OW	LA	
OBERHANSLY 2-2A1	02	010S	010W	4304740164		FEE	OW	LA	
DWR 3-15C6	15	030S	060W	4301351433		14-20-H62-4724	OW	NEW	C
Lake Fork Ranch 5-23B4	23	020S	040W	4301350739		Fee	OW	NEW	
Duchesne Land 4-10C5	10	030S	050W	4301351262		Fee	OW	NEW	C
Cabinland 4-9B3	09	020S	030W	4301351374		Fee	OW	NEW	C
Layton 4-2B3	02	020S	030W	4301351389		Fee	OW	NEW	C
Golinski 4-24B5	24	020S	050W	4301351404		Fee	OW	NEW	C
Alba 1-21C4	21	030S	040W	4301351460		Fee	OW	NEW	C
Allison 4-19C5	19	030S	050W	4301351466		Fee	OW	NEW	C
Seeley 4-3B3	03	020S	030W	4301351486		Fee	OW	NEW	C
Allen 4-25B5	25	020S	050W	4301351487		Fee	OW	NEW	C
Hewett 2-6C4	06	030S	040W	4301351489		Fee	OW	NEW	C
Young 2-7C4	07	030S	040W	4301351500		Fee	OW	NEW	C
Brighton 3-31A1E	31	010S	010E	4304752471		Fee	OW	NEW	C
Hamaker 3-25A1	25	010S	010W	4304752491		Fee	OW	NEW	C
Bolton 3-29A1E	29	010S	010E	4304752871		Fee	OW	NEW	C
HORROCKS 5-20A1	20	010S	010W	4301334280	17378	FEE	OW	OPS	C
DWR 3-19C6	19	030S	060W	4301334263	17440	14-20-462-1120	OW	P	
DWR 3-22C6	22	030S	060W	4301334106	17298	14-20-462-1131	OW	P	
DWR 3-28C6	28	030S	060W	4301334264	17360	14-20-462-1323	OW	P	
UTE 1-7A2	07	010S	020W	4301330025	5850	14-20-462-811	OW	P	
UTE 2-17C6	17	030S	060W	4301331033	10115	14-20-H62-1118	OW	P	
WLR TRIBAL 2-19C6	19	030S	060W	4301331035	10250	14-20-H62-1120	OW	P	
CEDAR RIM 10-A-15C6	15	030S	060W	4301330615	6420	14-20-H62-1128	OW	P	
CEDAR RIM 12A	28	030S	060W	4301331173	10672	14-20-H62-1323	OW	P	
UTE-FEE 2-33C6	33	030S	060W	4301331123	10365	14-20-H62-1328	OW	P	
TAYLOR 3-34C6	34	030S	060W	4301350200	17572	1420H621329	OW	P	
BAKER UTE 2-34C6	34	030S	060W	4301332634	14590	14-20-H62-1329	OW	P	
UTE 3-35Z2 K	35	010N	020W	4301331133	10483	14-20-H62-1614	OW	P	
UTE 1-32Z2	32	010N	020W	4301330379	1915	14-20-H62-1702	OW	P	
UTE TRIBAL 1-33Z2	33	010N	020W	4301330334	1851	14-20-H62-1703	OW	P	
UTE 2-33Z2	33	010N	020W	4301331111	10451	14-20-H62-1703	OW	P	
UTE TRIBAL 2-34Z2	34	010N	020W	4301331167	10668	14-20-H62-1704	OW	P	
LAKE FORK RANCH 3-13B4	13	020S	040W	4301334262	17439	14-20-H62-1743	OW	P	
UTE 1-28B4	28	020S	040W	4301330242	1796	14-20-H62-1745	OW	P	
UTE 1-34A4	34	010S	040W	4301330076	1585	14-20-H62-1774	OW	P	
UTE 1-36A4	36	010S	040W	4301330069	1580	14-20-H62-1793	OW	P	
UTE 1-1B4	01	020S	040W	4301330129	1700	14-20-H62-1798	OW	P	
UTE 1-31A2	31	010S	020W	4301330401	1925	14-20-H62-1801	OW	P	

UTE 1-25A3	25	010S	030W	4301330370	1920	14-20-H62-1802	OW	P	
UTE 2-25A3	25	010S	030W	4301331343	11361	14-20-H62-1802	OW	P	
UTE 1-26A3	26	010S	030W	4301330348	1890	14-20-H62-1803	OW	P	
UTE 2-26A3	26	010S	030W	4301331340	11349	14-20-H62-1803	OW	P	
UTE TRIBAL 4-35A3	35	010S	030W	4301350274	18009	1420H621804	OW	P	C
UTE 2-35A3	35	010S	030W	4301331292	11222	14-20-H62-1804	OW	P	
UTE 3-35A3	35	010S	030W	4301331365	11454	14-20-H62-1804	OW	P	
UTE 1-6B2	06	020S	020W	4301330349	1895	14-20-H62-1807	OW	P	
UTE 2-6B2	06	020S	020W	4301331140	11190	14-20-H62-1807	OW	P	
UTE TRIBAL 3-6B2	06	020S	020W	4301350273	18008	14-20-H62-1807	OW	P	C
POWELL 4-19A1	19	010S	010W	4301330071	8302	14-20-H62-1847	OW	P	
COLTHARP 1-27Z1	27	010N	010W	4301330151	4700	14-20-H62-1933	OW	P	
UTE 1-8A1E	08	010S	010E	4304730173	1846	14-20-H62-2147	OW	P	
UTE TRIBE 1-31	31	010N	020W	4301330278	4755	14-20-H62-2421	OW	P	
UTE 1-28B6X	28	020S	060W	4301330510	11165	14-20-H62-2492	OW	P	
RINKER 2-21B5	21	020S	050W	4301334166	17299	14-20-H62-2508	OW	P	
MURDOCK 2-34B5	34	020S	050W	4301331132	10456	14-20-H62-2511	OW	P	
UTE 1-35B6	35	020S	060W	4301330507	2335	14-20-H62-2531	OW	P	
UTE TRIBAL 1-17A1E	17	010S	010E	4304730829	860	14-20-H62-2658	OW	P	
UTE 2-17A1E	17	010S	010E	4304737831	16709	14-20-H62-2658	OW	P	
UTE TRIBAL 1-27A1E	27	010S	010E	4304730421	800	14-20-H62-2662	OW	P	
UTE TRIBAL 1-35A1E	35	010S	010E	4304730286	795	14-20-H62-2665	OW	P	
UTE TRIBAL 1-15A1E	15	010S	010E	4304730820	850	14-20-H62-2717	OW	P	
UTE TRIBAL P-3B1E	03	020S	010E	4304730190	4536	14-20-H62-2873	OW	P	
UTE TRIBAL 1-22A1E	22	010S	010E	4304730429	810	14-20-H62-3103	OW	P	
B H UTE 1-35C6	35	030S	060W	4301330419	10705	14-20-H62-3436	OW	P	
BH UTE 2-35C6	35	030S	060W	4301332790	15802	14-20-H62-3436	OW	P	
MCFARLANE 1-4D6	04	040S	060W	4301331074	10325	14-20-H62-3452	OW	P	
UTE TRIBAL 1-11D6	11	040S	060W	4301330482	6415	14-20-H62-3454	OW	P	
CARSON 2-36A1	36	010S	010W	4304731407	737	14-20-H62-3806	OW	P	
UTE 2-14C6	14	030S	060W	4301330775	9133	14-20-H62-3809	OW	P	
DWR 3-14C6	14	030S	060W	4301334003	17092	14-20-H62-3809	OW	P	
THE PERFECT "10" 1-10A1	10	010S	010W	4301330935	9461	14-20-H62-3855	OW	P	
BADGER-SAM H U MONGUS 1-15A1	15	010S	010W	4301330949	9462	14-20-H62-3860	OW	P	
MAXIMILLIAN-UTE 14-1	14	010S	030W	4301330726	8437	14-20-H62-3868	OW	P	
FRED BASSETT 1-22A1	22	010S	010W	4301330781	9460	14-20-H62-3880	OW	P	
UTE TRIBAL 1-30Z1	30	010N	010W	4301330813	9405	14-20-H62-3910	OW	P	
UTE LB 1-13A3	13	010S	030W	4301330894	9402	14-20-H62-3980	OW	P	
UTE 2-22B6	22	020S	060W	4301331444	11641	14-20-H62-4614	OW	P	
UINTA OURAY 1-1A3	01	010S	030W	4301330132	5540	14-20-H62-4664	OW	P	
UTE 1-6D6	06	040S	060W	4301331696	12058	14-20-H62-4752	OW	P	
UTE 2-11D6	11	040S	060W	4301350179	17667	1420H624801	OW	P	
UTE 1-15D6	15	040S	060W	4301330429	10958	14-20-H62-4824	OW	P	
UTE 2-15D6	15	040S	060W	4301334026	17193	14-20-H62-4824	OW	P	
HILL 3-24C6	24	030S	060W	4301350293	18020	1420H624866	OW	P	C
BARCLAY UTE 2-24C6R	24	030S	060W	4301333730	16385	14-20-H62-4866	OW	P	
BROTHERSON 1-2B4	02	020S	040W	4301330062	1570	FEE	OW	P	
BOREN 1-24A2	24	010S	020W	4301330084	5740	FEE	OW	P	
FARNSWORTH 1-13B5	13	020S	050W	4301330092	1610	FEE	OW	P	
BROADHEAD 1-21B6	21	020S	060W	4301330100	1595	FEE	OW	P	
ASAY E J 1-20A1	20	010S	010W	4301330102	8304	FEE	OW	P	
HANSON TRUST 1-5B3	05	020S	030W	4301330109	1635	FEE	OW	P	
ELLSWORTH 1-8B4	08	020S	040W	4301330112	1655	FEE	OW	P	
ELLSWORTH 1-9B4	09	020S	040W	4301330118	1660	FEE	OW	P	
ELLSWORTH 1-17B4	17	020S	040W	4301330126	1695	FEE	OW	P	
CHANDLER 1-5B4	05	020S	040W	4301330140	1685	FEE	OW	P	
HANSON 1-32A3	32	010S	030W	4301330141	1640	FEE	OW	P	
JESSEN 1-17A4	17	010S	040W	4301330173	4725	FEE	OW	P	



JENKINS 1-1B3	01	020S	030W	4301330175	1790	FEE	OW	P	
GOODRICH 1-2B3	02	020S	030W	4301330182	1765	FEE	OW	P	
ELLSWORTH 1-19B4	19	020S	040W	4301330183	1760	FEE	OW	P	
DOYLE 1-10B3	10	020S	030W	4301330187	1810	FEE	OW	P	
JOS. SMITH 1-17C5	17	030S	050W	4301330188	5510	FEE	OW	P	
RUDY 1-11B3	11	020S	030W	4301330204	1820	FEE	OW	P	
CROOK 1-6B4	06	020S	040W	4301330213	1825	FEE	OW	P	
HUNT 1-21B4	21	020S	040W	4301330214	1840	FEE	OW	P	
LAWRENCE 1-30B4	30	020S	040W	4301330220	1845	FEE	OW	P	
YOUNG 1-29B4	29	020S	040W	4301330246	1791	FEE	OW	P	
GRIFFITHS 1-33B4	33	020S	040W	4301330288	4760	FEE	OW	P	
POTTER 1-2B5	02	020S	050W	4301330293	1826	FEE	OW	P	
BROTHERSON 1-26B4	26	020S	040W	4301330336	1856	FEE	OW	P	
SADIE BLANK 1-33Z1	33	010N	010W	4301330355	765	FEE	OW	P	
POTTER 1-24B5	24	020S	050W	4301330356	1730	FEE	OW	P	
WHITEHEAD 1-22A3	22	010S	030W	4301330357	1885	FEE	OW	P	
CHASEL MILLER 2-1A2	01	010S	020W	4301330360	5830	FEE	OW	P	
ELDER 1-13B2	13	020S	020W	4301330366	1905	FEE	OW	P	
BROTHERSON 2-10B4	10	020S	040W	4301330443	1615	FEE	OW	P	
FARNSWORTH 2-7B4	07	020S	040W	4301330470	1935	FEE	OW	P	
TEW 1-15A3	15	010S	030W	4301330529	1945	FEE	OW	P	
UTE FEE 2-20C5	20	030S	050W	4301330550	4527	FEE	OW	P	
HOUSTON 1-34Z1	34	010N	010W	4301330566	885	FEE	OW	P	
GALLOWAY 1-18B1	18	020S	010W	4301330575	2365	FEE	OW	P	
SMITH 1-31B5	31	020S	050W	4301330577	1955	FEE	OW	P	
LEBEAU 1-34A1	34	010S	010W	4301330590	1440	FEE	OW	P	
LINMAR 1-19B2	19	020S	020W	4301330600	9350	FEE	OW	P	
WISSE 1-28Z1	28	010N	010W	4301330609	905	FEE	OW	P	
POWELL 1-21B1	21	020S	010W	4301330621	910	FEE	OW	P	
HANSEN 1-24B3	24	020S	030W	4301330629	2390	FEE	OW	P	
OMAN 2-4B4	04	020S	040W	4301330645	9125	FEE	OW	P	
DYE 1-25Z2	25	010N	020W	4301330659	9111	FEE	OW	P	
H MARTIN 1-21Z1	21	010N	010W	4301330707	925	FEE	OW	P	
JENSEN 1-29Z1	29	010N	010W	4301330725	9110	FEE	OW	P	
CHASEL 2-17A1 V	17	010S	010W	4301330732	9112	FEE	OW	P	
BIRCHELL 1-27A1	27	010S	010W	4301330758	940	FEE	OW	P	
CHRISTENSEN 2-8B3	08	020S	030W	4301330780	9355	FEE	OW	P	
LAMICQ 2-5B2	05	020S	020W	4301330784	2302	FEE	OW	P	
BROTHERSON 2-14B4	14	020S	040W	4301330815	10450	FEE	OW	P	
MURRAY 3-2A2	02	010S	020W	4301330816	9620	FEE	OW	P	
HORROCKS 2-20A1 V	20	010S	010W	4301330833	8301	FEE	OW	P	
BROTHERSON 2-2B4	02	020S	040W	4301330855	8420	FEE	OW	P	
ELLSWORTH 2-8B4	08	020S	040W	4301330898	2418	FEE	OW	P	
OMAN 2-32A4	32	010S	040W	4301330904	10045	FEE	OW	P	
BELCHER 2-33B4	33	020S	040W	4301330907	9865	FEE	OW	P	
BROTHERSON 2-35B5	35	020S	050W	4301330908	9404	FEE	OW	P	
HORROCKS 2-4A1 T	04	010S	010W	4301330954	9855	FEE	OW	P	
JENSEN 2-29A5	29	010S	050W	4301330974	10040	FEE	OW	P	
UTE 2-34A4	34	010S	040W	4301330978	10070	FEE	OW	P	
CHANDLER 2-5B4	05	020S	040W	4301331000	10075	FEE	OW	P	
BABCOCK 2-12B4	12	020S	040W	4301331005	10215	FEE	OW	P	
BADGER MR BOOM BOOM 2-29A1	29	010S	010W	4301331013	9463	FEE	OW	P	
BLEAZARD 2-18B4	18	020S	040W	4301331025	1566	FEE	OW	P	
BROADHEAD 2-32B5	32	020S	050W	4301331036	10216	FEE	OW	P	
ELLSWORTH 2-16B4	16	020S	040W	4301331046	10217	FEE	OW	P	
RUST 3-4B3	04	020S	030W	4301331070	1576	FEE	OW	P	
HANSON TRUST 2-32A3	32	010S	030W	4301331072	1641	FEE	OW	P	
BROTHERSON 2-11B4	11	020S	040W	4301331078	1541	FEE	OW	P	

HANSON TRUST 2-5B3	05	020S	030W	4301331079	1636	FEE	OW	P	
BROTHERSON 2-15B4	15	020S	040W	4301331103	1771	FEE	OW	P	
MONSEN 2-27A3	27	010S	030W	4301331104	1746	FEE	OW	P	
ELLSWORTH 2-19B4	19	020S	040W	4301331105	1761	FEE	OW	P	
HUNT 2-21B4	21	020S	040W	4301331114	1839	FEE	OW	P	
JENKINS 2-1B3	01	020S	030W	4301331117	1792	FEE	OW	P	
POTTER 2-24B5	24	020S	050W	4301331118	1731	FEE	OW	P	
POWELL 2-13A2 K	13	010S	020W	4301331120	8306	FEE	OW	P	
JENKINS 2-12B3	12	020S	030W	4301331121	10459	FEE	OW	P	
MURDOCK 2-26B5	26	020S	050W	4301331124	1531	FEE	OW	P	
BIRCH 3-27B5	27	020S	050W	4301331126	1783	FEE	OW	P	
ROBB 2-29B5	29	020S	050W	4301331130	10454	FEE	OW	P	
LAKE FORK 2-13B4	13	020S	040W	4301331134	10452	FEE	OW	P	
DUNCAN 3-1A2 K	01	010S	020W	4301331135	10484	FEE	OW	P	
HANSON 2-9B3	09	020S	030W	4301331136	10455	FEE	OW	P	
ELLSWORTH 2-9B4	09	020S	040W	4301331138	10460	FEE	OW	P	
UTE 2-31A2	31	010S	020W	4301331139	10458	FEE	OW	P	
POWELL 2-19A1 K	19	010S	010W	4301331149	8303	FEE	OW	P	
CEDAR RIM 8-A	22	030S	060W	4301331171	10666	FEE	OW	P	
POTTER 2-6B4	06	020S	040W	4301331249	11038	FEE	OW	P	
MILES 2-1B5	01	020S	050W	4301331257	11062	FEE	OW	P	
MILES 2-3B3	03	020S	030W	4301331261	11102	FEE	OW	P	
MONSEN 2-22A3	22	010S	030W	4301331265	11098	FEE	OW	P	
WRIGHT 2-13B5	13	020S	050W	4301331267	11115	FEE	OW	P	
TODD 2-21A3	21	010S	030W	4301331296	11268	FEE	OW	P	
WEIKART 2-29B4	29	020S	040W	4301331298	11332	FEE	OW	P	
YOUNG 2-15A3	15	010S	030W	4301331301	11344	FEE	OW	P	
CHRISTENSEN 2-29A4	29	010S	040W	4301331303	11235	FEE	OW	P	
BLEAZARD 2-28B4	28	020S	040W	4301331304	11433	FEE	OW	P	
REARY 2-17A3	17	010S	030W	4301331318	11251	FEE	OW	P	
LAZY K 2-11B3	11	020S	030W	4301331352	11362	FEE	OW	P	
LAZY K 2-14B3	14	020S	030W	4301331354	11452	FEE	OW	P	
MATTHEWS 2-13B2	13	020S	020W	4301331357	11374	FEE	OW	P	
LAKE FORK 3-15B4	15	020S	040W	4301331358	11378	FEE	OW	P	
STEVENSON 3-29A3	29	010S	030W	4301331376	11442	FEE	OW	P	
MEEKS 3-8B3	08	020S	030W	4301331377	11489	FEE	OW	P	
ELLSWORTH 3-20B4	20	020S	040W	4301331389	11488	FEE	OW	P	
DUNCAN 5-13A2	13	010S	020W	4301331516	11776	FEE	OW	P	
OWL 3-17C5	17	030S	050W	4301332112	12476	FEE	OW	P	
BROTHERSON 2-24 B4	24	020S	040W	4301332695	14652	FEE	OW	P	
BODRERO 2-15B3	15	020S	030W	4301332755	14750	FEE	OW	P	
BROTHERSON 2-25B4	25	020S	040W	4301332791	15044	FEE	OW	P	
CABINLAND 2-16B3	16	020S	030W	4301332914	15236	FEE	OW	P	
KATHERINE 3-29B4	29	020S	040W	4301332923	15331	FEE	OW	P	
SHRINERS 2-10C5	10	030S	050W	4301333008	15908	FEE	OW	P	
BROTHERSON 2-26B4	26	020S	040W	4301333139	17047	FEE	OW	P	
MORTENSEN 4-32A2	32	010S	020W	4301333211	15720	FEE	OW	P	
FERRARINI 3-27B4	27	020S	040W	4301333265	15883	FEE	OW	P	
RHOADES 2-25B5	25	020S	050W	4301333467	16046	FEE	OW	P	
CASE 2-31B4	31	020S	040W	4301333548	16225	FEE	OW	P	
ANDERSON-ROWLEY 2-24B3	24	020S	030W	4301333616	16284	FEE	OW	P	
SPROUSE BOWDEN 2-18B1	18	020S	010W	4301333808	16677	FEE	OW	P	
BROTHERSON 3-11B4	11	020S	040W	4301333904	16891	FEE	OW	P	
KOFFORD 2-36B5	36	020S	050W	4301333988	17048	FEE	OW	P	
ALLEN 3-7B4	07	020S	040W	4301334027	17166	FEE	OW	P	
BOURNAKIS 3-18B4	18	020S	040W	4301334091	17264	FEE	OW	P	
MILES 3-12B5	12	020S	050W	4301334110	17316	FEE	OW	P	
OWL and HAWK 2-31B5	31	020S	050W	4301334123	17388	FEE	OW	P	

OWL and HAWK 4-17C5	17	030S	050W	4301334193	17387	FEE	OW	P	
DWR 3-32B5	32	020S	050W	4301334207	17371	FEE	OW	P	
LAKE FORK RANCH 3-22B4	22	020S	040W	4301334261	17409	FEE	OW	P	
HANSON 3-9B3	09	020S	030W	4301350065	17570	FEE	OW	P	
DYE 2-28A1	28	010S	010W	4301350066	17531	FEE	OW	P	
MEEKS 3-32A4	32	010S	040W	4301350069	17605	FEE	OW	P	
HANSON 4-8B3	08	020S	030W	4301350088	17571	FEE	OW	P	C
LAKE FORK RANCH 3-14B4	14	020S	040W	4301350097	17484	FEE	OW	P	
ALLEN 3-9B4	09	020S	040W	4301350123	17656	FEE	OW	P	
HORROCKS 4-20A1	20	010S	010W	4301350155	17916	FEE	OW	P	
HURLEY 2-33A1	33	010S	010W	4301350166	17573	FEE	OW	P	
HUTCHINS/CHIODO 3-20C5	20	030S	050W	4301350190	17541	FEE	OW	P	
ALLEN 3-8B4	08	020S	040W	4301350192	17622	FEE	OW	P	
OWL and HAWK 3-10C5	10	030S	050W	4301350193	17532	FEE	OW	P	
OWL and HAWK 3-19C5	19	030S	050W	4301350201	17508	FEE	OW	P	
EL PASO 4-29B5	29	020S	050W	4301350208	17934	FEE	OW	P	C
DONIHUE 3-20C6	20	030S	060W	4301350270	17762	FEE	OW	P	
HANSON 3-5B3	05	020S	030W	4301350275	17725	FEE	OW	P	C
SPRATT 3-26B5	26	020S	050W	4301350302	17668	FEE	OW	P	
REBEL 3-35B5	35	020S	050W	4301350388	17911	FEE	OW	P	C
FREEMAN 4-16B4	16	020S	040W	4301350438	17935	Fee	OW	P	C
WILSON 3-36B5	36	020S	050W	4301350439	17936	Fee	OW	P	C
EL PASO 3-21B4	21	020S	040W	4301350474	18123	Fee	OW	P	C
IORG 4-12B3	12	020S	030W	4301350487	17981	Fee	OW	P	C
CONOVER 3-3B3	03	020S	030W	4301350526	18122	Fee	OW	P	C
ROWLEY 3-16B4	16	020S	040W	4301350569	18151	Fee	OW	P	C
POTTS 3-14B3	14	020S	030W	4301350570	18366	Fee	OW	P	C
POTTER 4-27B5	27	020S	050W	4301350571	99999	Fee	OW	P	C
EL PASO 4-21B4	21	020S	040W	4301350572	18152	Fee	OW	P	C
LAKE FORK RANCH 3-26B4	26	020S	040W	4301350707	18270	Fee	OW	P	C
LAKE FORK RANCH 3-25B4	25	020S	040W	4301350711	18220	Fee	OW	P	C
LAKE FORK RANCH 4-23B4	23	020S	040W	4301350713	18271	Fee	OW	P	C
LAKE FORK RANCH 4-15B4	15	020S	040W	4301350715	18314	Fee	OW	P	C
LAKE FORK RANCH 3-24B4	24	020S	040W	4301350716	18269	Fee	OW	P	C
GOLINSKI 1-8C4	08	030S	040W	4301350986	18301	Fee	OW	P	C
J ROBERTSON 1-1B1	01	020S	010W	4304730174	5370	FEE	OW	P	
TIMOTHY 1-8B1E	08	020S	010E	4304730215	1910	FEE	OW	P	
MAGDALENE PAPADOPULOS 1-34A1E	34	010S	010E	4304730241	785	FEE	OW	P	
NELSON 1-31A1E	31	010S	010E	4304730671	830	FEE	OW	P	
ROSEMARY LLOYD 1-24A1E	24	010S	010E	4304730707	840	FEE	OW	P	
H D LANDY 1-30A1E	30	010S	010E	4304730790	845	FEE	OW	P	
WALKER 1-14A1E	14	010S	010E	4304730805	855	FEE	OW	P	
BOLTON 2-29A1E	29	010S	010E	4304731112	900	FEE	OW	P	
PRESCOTT 1-35Z1	35	010N	010W	4304731173	1425	FEE	OW	P	
BISEL GURR 11-1	11	010S	010W	4304731213	8438	FEE	OW	P	
UTE TRIBAL 2-22A1E	22	010S	010E	4304731265	915	FEE	OW	P	
L. BOLTON 1-12A1	12	010S	010W	4304731295	920	FEE	OW	P	
FOWLES 1-26A1	26	010S	010W	4304731296	930	FEE	OW	P	
BRADLEY 23-1	23	010S	010W	4304731297	8435	FEE	OW	P	
BASTIAN 1-2A1	02	010S	010W	4304731373	736	FEE	OW	P	
D R LONG 2-19A1E	19	010S	010E	4304731470	9505	FEE	OW	P	
D MOON 1-23Z1	23	010N	010W	4304731479	10310	FEE	OW	P	
O MOON 2-26Z1	26	010N	010W	4304731480	10135	FEE	OW	P	
LILA D 2-25A1	25	010S	010W	4304731797	10790	FEE	OW	P	
LANDY 2-30A1E	30	010S	010E	4304731895	11127	FEE	OW	P	
WINN P2-3B1E	03	020S	010E	4304732321	11428	FEE	OW	P	
BISEL-GURR 2-11A1	11	010S	010W	4304735410	14428	FEE	OW	P	
FLYING J FEE 2-12A1	12	010S	010W	4304739467	16686	FEE	OW	P	

HARVEST FELLOWSHIP CHURCH 2-14B1	14	020S	010W	4304739591	16546	FEE	OW	P	
OBERHANSKY 3-11A1	11	010S	010W	4304739679	17937	FEE	OW	P	
DUNCAN 2-34A1	34	010S	010W	4304739944	17043	FEE	OW	P	
BISEL GURR 4-11A1	11	010S	010W	4304739961	16791	FEE	OW	P	
KILLIAN 3-12A1	12	010S	010W	4304740226	17761	ML 39760	OW	P	
WAINOCO ST 1-14B1	14	020S	010W	4304730818	1420	ML-24306-A	OW	P	
UTAH ST UTE 1-35A1	35	010S	010W	4304730182	5520	ML-25432	OW	P	
STATE 1-19A4	19	010S	040W	4301330322	9118	ML-27912	OW	P	
FEDERAL 2-28E19E	28	050S	190E	4304732849	12117	UTU-0143512	OW	P	
FEDERAL 1-28E19E	28	050S	190E	4304730175	5680	UTU143512	OW	P	
BLANCHARD 1-3A2	03	010S	020W	4301320316	5877	FEE	OW	PA	
W H BLANCHARD 2-3A2	03	010S	020W	4301330008	5775	FEE	OW	PA	
YACK U 1-7A1	07	010S	010W	4301330018	5795	FEE	OW	PA	
JAMES POWELL 3	13	010S	020W	4301330024	8305	FEE	WD	PA	
BASTIAN 1 (3-7D)	07	010S	010W	4301330026	5800	FEE	OW	PA	
LAMICQ-URRUTY 1-8A2	08	010S	020W	4301330036	5975	FEE	OW	PA	
BLEAZARD 1-18B4	18	020S	040W	4301330059	11262	FEE	OW	PA	
OLSEN 1-27A4	27	010S	040W	4301330064	1565	FEE	OW	PA	
EVANS 1-31A4	31	010S	040W	4301330067	5330	FEE	OW	PA	
HAMBLIN 1-26A2	26	010S	020W	4301330083	2305	FEE	OW	PA	
HARTMAN 1-31A3	31	010S	030W	4301330093	10700	FEE	OW	PA	
FARNSWORTH 1-7B4	07	020S	040W	4301330097	5725	FEE	OW	PA	
POWELL 1-33A3	33	010S	030W	4301330105	4526	FEE	OW	PA	
LOTRIDGE GATES 1-3B3	03	020S	030W	4301330117	1625	FEE	OW	PA	
REMINGTON 1-34A3	34	010S	030W	4301330139	1670	FEE	OW	PA	
ANDERSON 1-28A2	28	010S	020W	4301330150	5895	FEE	OW	PA	
RHOADES MOON 1-35B5	35	020S	050W	4301330155	5270	FEE	OW	PA	
JOHN 1-3B2	03	020S	020W	4301330160	5765	FEE	OW	PA	
SMITH 1-6C5	06	030S	050W	4301330163	5385	FEE	OW	PA	
HORROCKS FEE 1-3A1	03	010S	010W	4301330171	5505	FEE	OW	PA	
WARREN 1-32A4	32	010S	040W	4301330174	9139	FEE	OW	PA	
JENSEN FENZEL 1-20C5	20	030S	050W	4301330177	4730	FEE	OW	PA	
MYRIN RANCH 1-13B4	13	020S	040W	4301330180	4524	FEE	OW	PA	
BROTHERSON 1-27B4	27	020S	040W	4301330185	1775	FEE	OW	PA	
JENSEN 1-31A5	31	010S	050W	4301330186	4735	FEE	OW	PA	
ROBERTSON 1-29A2	29	010S	020W	4301330189	4740	FEE	OW	PA	
WINKLER 1-28A3	28	010S	030W	4301330191	5465	FEE	OW	PA	
CHENEY 1-33A2	33	010S	020W	4301330202	1750	FEE	OW	PA	
J LAMICQ STATE 1-6B1	06	020S	010W	4301330210	5730	FEE	OW	PA	
REESE ESTATE 1-10B2	10	020S	020W	4301330215	5700	FEE	OW	PA	
REEDER 1-17B5	17	020S	050W	4301330218	5460	FEE	OW	PA	
ROBERTSON UTE 1-2B2	02	020S	020W	4301330225	1710	FEE	OW	PA	
HATCH 1-5B1	05	020S	010W	4301330226	5470	FEE	OW	PA	
BROTHERSON 1-22B4	22	020S	040W	4301330227	5935	FEE	OW	PA	
ALLRED 1-16A3	16	010S	030W	4301330232	1780	FEE	OW	PA	
BIRCH 1-35A5	35	010S	050W	4301330233	9116	FEE	OW	PA	
MARQUERITE UTE 1-8B2	08	020S	020W	4301330235	9122	FEE	OW	PA	
BUZZI 1-11B2	11	020S	020W	4301330248	6335	FEE	OW	PA	
SHISLER 1-3B1	03	020S	010W	4301330249	5960	FEE	OW	PA	
TEW 1-1B5	01	020S	050W	4301330264	5580	FEE	OW	PA	
EVANS UTE 1-19B3	19	020S	030W	4301330265	1870	FEE	OW	PA	
SHELL 2-27A4	27	010S	040W	4301330266	1776	FEE	WD	PA	
DYE 1-29A1	29	010S	010W	4301330271	99990	FEE	OW	PA	
VODA UTE 1-4C5	04	030S	050W	4301330283	4530	FEE	OW	PA	
BROTHERSON 1-28A4	28	010S	040W	4301330292	9114	FEE	OW	PA	
MEAGHER 1-4B2	04	020S	020W	4301330313	8402	FEE	OW	PA	
NORLING 1-9B1	09	020S	010W	4301330315	1811	FEE	OW	PA	
S. BROADHEAD 1-9C5	09	030S	050W	4301330316	5940	FEE	OW	PA	

TIMOTHY 1-09A3	09	010S	030W	4301330321	10883	FEE	OW	PA
BARRETT 1-34A5	34	010S	050W	4301330323	9115	FEE	OW	PA
MEAGHER TRIBAL 1-9B2	09	020S	020W	4301330325	9121	FEE	OW	PA
PHILLIPS UTE 1-3C5	03	030S	050W	4301330333	1816	FEE	OW	PA
ELLSWORTH 1-20B4	20	020S	040W	4301330351	6375	FEE	OW	PA
LAWSON 1-28A1	28	010S	010W	4301330358	5915	FEE	OW	PA
AMES 1-23A4	23	010S	040W	4301330375	1901	FEE	OW	PA
HORROCKS 1-6A1	06	010S	010W	4301330390	5675	FEE	OW	PA
SHRINE HOSPITAL 1-10C5	10	030S	050W	4301330393	5565	FEE	OW	PA
GOODRICH 1-18B2	18	020S	020W	4301330397	5485	FEE	OW	PA
SWD POWELL 3	13	010S	020W	4301330478	10708	FEE	WD	PA
BODRERO 1-15B3	15	020S	030W	4301330565	4534	FEE	OW	PA
MOON TRIBAL 1-30C4	30	030S	040W	4301330576	2360	FEE	OW	PA
DUNCAN 2-9B5	09	020S	050W	4301330719	5440	FEE	OW	PA
FISHER 1-16A4	16	010S	040W	4301330737	2410	FEE	OW	PA
URRUTY 2-34A2	34	010S	020W	4301330753	9117	FEE	OW	PA
GOODRICH 1-24A4	24	010S	040W	4301330760	2415	FEE	OW	PA
CARL SMITH 2-25A4	25	010S	040W	4301330776	9136	FEE	OW	PA
ANDERSON 1-A30B1	30	020S	010W	4301330783	9137	FEE	OW	PA
CADILLAC 3-6A1	06	010S	010W	4301330834	6316	FEE	OW	PA
MCELPRANG 2-31A1	31	010S	010W	4301330836	8439	FEE	OW	PA
REESE ESTATE 2-10B2	10	020S	020W	4301330837	2417	FEE	OW	PA
CLARK 2-9A3	09	010S	030W	4301330876	2416	FEE	OW	PA
JENKINS 3-16A3	16	010S	030W	4301330877	9790	FEE	OW	PA
CHRISTENSEN 2-26A5	26	010S	050W	4301330905	10710	FEE	OW	PA
FORD 2-36A5	36	010S	050W	4301330911	9630	FEE	OW	PA
MORTENSEN 2-32A2	32	010S	020W	4301330929	9486	FEE	OW	PA
WILKERSON 1-20Z1	20	010N	010W	4301330942	5452	FEE	OW	PA
UTE TRIBAL 2-4A3 S	04	010S	030W	4301330950	10230	FEE	OW	PA
OBERHANSKY 2-31Z1	31	010N	010W	4301330970	9262	FEE	OW	PA
MORRIS 2-7A3	07	010S	030W	4301330977	9725	FEE	OW	PA
POWELL 2-08A3	08	010S	030W	4301330979	10175	FEE	OW	PA
FISHER 2-6A3	06	010S	030W	4301330984	10110	FEE	OW	PA
JACOBSEN 2-12A4	12	010S	040W	4301330985	10480	FEE	OW	PA
CHENEY 2-33A2	33	010S	020W	4301331042	10313	FEE	OW	PA
HANSON TRUST 2-29A3	29	010S	030W	4301331043	5306	FEE	OW	PA
BURTON 2-15B5	15	020S	050W	4301331044	10205	FEE	OW	PA
EVANS-UTE 2-17B3	17	020S	030W	4301331056	10210	FEE	OW	PA
ELLSWORTH 2-20B4	20	020S	040W	4301331090	5336	FEE	OW	PA
REMINGTON 2-34A3	34	010S	030W	4301331091	1902	FEE	OW	PA
WINKLER 2-28A3	28	010S	030W	4301331109	4519	FEE	OW	PA
TEW 2-10B5	10	020S	050W	4301331125	1751	FEE	OW	PA
LINDSAY 2-33A4	33	010S	040W	4301331141	1756	FEE	OW	PA
FIELDSTED 2-28A4	28	010S	040W	4301331293	10665	FEE	OW	PA
POWELL 4-13A2	13	010S	020W	4301331336	11177	FEE	GW	PA
DUMP 2-20A3	20	010S	030W	4301331505	11691	FEE	OW	PA
SMITH 2X-23C7	23	030S	070W	4301331634	12382	FEE	D	PA
MORTENSEN 3-32A2	32	010S	020W	4301331872	11928	FEE	OW	PA
TODD USA ST 1-2B1	02	020S	010W	4304730167	99998	FEE	OW	PA
STATE 1-7B1E	07	020S	010E	4304730180	5555	FEE	OW	PA
BACON 1-10B1E	10	020S	010E	4304730881	5550	FEE	OW	PA
PARIETTE DRAW 28-44	28	040S	010E	4304731408	4537	FEE	OW	PA
REYNOLDS 2-7B1E	07	020S	010E	4304731840	4960	FEE	OW	PA
STATE 2-35A2	35	010S	020W	4301330156	4715	ML-22874	OW	PA
UTAH STATE L B 1-11B1	11	020S	010W	4304730171	5530	ML-23655	OW	PA
STATE 1-8A3	08	010S	030W	4301330286	5655	ML-24316	OW	PA
UTAH FEDERAL 1-24B1	24	020S	010W	4304730220	590	ML-26079	OW	PA
CEDAR RIM 15	34	030S	060W	4301330383	6395	14-20-462-1329	OW	S

UTE TRIBAL 2-24C7	24	030S	070W	4301331028	10240	14-20-H62-1135	OW	S	
CEDAR RIM 12	28	030S	060W	4301330344	6370	14-20-H62-1323	OW	S	
CEDAR RIM 16	33	030S	060W	4301330363	6390	14-20-H62-1328	OW	S	
SPRING HOLLOW 2-34Z3	34	010N	030W	4301330234	5255	14-20-H62-1480	OW	S	
EVANS UTE 1-17B3	17	020S	030W	4301330274	5335	14-20-H62-1733	OW	S	
UTE JENKS 2-1-B4 G	01	020S	040W	4301331197	10844	14-20-H62-1782	OW	S	
UTE 3-12B3	12	020S	030W	4301331379	11490	14-20-H62-1810	OW	S	
UTE TRIBAL 9-4B1	04	020S	010W	4301330194	5715	14-20-H62-1969	OW	S	
UTE TRIBAL 2-21B6	21	020S	060W	4301331424	11615	14-20-H62-2489	OW	S	
UTE 1-33B6	33	020S	060W	4301330441	1230	14-20-H62-2493	OW	S	
UTE 2-22B5	22	020S	050W	4301331122	10453	14-20-H62-2509	OW	S	
UTE 1-18B1E	18	020S	010E	4304730969	9135	14-20-H62-2864	OW	S	
LAUREN UTE 1-23A3	23	010S	030W	4301330895	9403	14-20-H62-3981	OW	S	
UTE 2-28B6	28	020S	060W	4301331434	11624	14-20-H62-4622	OW	S	
UTE 1-27B6X	27	020S	060W	4301330517	11166	14-20-H62-4631	OW	S	
UTE 2-27B6	27	020S	060W	4301331449	11660	14-20-H62-4631	OW	S	
CEDAR RIM 10-15C6	15	030S	060W	4301330328	6365	14-20-H62-4724	OW	S	
UTE 5-30A2	30	010S	020W	4301330169	5910	14-20-H62-4863	OW	S	
UTE TRIBAL G-1 (1-24C6)	24	030S	060W	4301330298	4533	14-20-H62-4866	OW	S	
UTE TRIBAL FEDERAL 1-30C5	30	030S	050W	4301330475	665	14-20-H62-4876	OW	S	
SMB 1-10A2	10	010S	020W	4301330012	5865	FEE	OW	S	
KENDALL 1-12A2	12	010S	020W	4301330013	5875	FEE	OW	S	
CEDAR RIM 2	20	030S	060W	4301330019	6315	FEE	OW	S	
URRUTY 2-9A2	09	010S	020W	4301330046	5855	FEE	OW	S	
BROTHERSON 1-14B4	14	020S	040W	4301330051	1535	FEE	OW	S	
RUST 1-4B3	04	020S	030W	4301330063	1575	FEE	OW	S	
MONSEN 1-21A3	21	010S	030W	4301330082	1590	FEE	OW	S	
BROTHERSON 1-10B4	10	020S	040W	4301330110	1614	FEE	OW	S	
FARNSWORTH 1-12B5	12	020S	050W	4301330124	1645	FEE	OW	S	
ELLSWORTH 1-16B4	16	020S	040W	4301330192	1735	FEE	OW	S	
MARSHALL 1-20A3	20	010S	030W	4301330193	9340	FEE	OW	S	
CHRISTMAN BLAND 1-31B4	31	020S	040W	4301330198	4745	FEE	OW	S	
ROPER 1-14B3	14	020S	030W	4301330217	1850	FEE	OW	S	
BROTHERSON 1-24B4	24	020S	040W	4301330229	1865	FEE	OW	S	
BROTHERSON 1-33A4	33	010S	040W	4301330272	1680	FEE	OW	S	
BROTHERSON 1-23B4	23	020S	040W	4301330483	8423	FEE	OW	S	
SMITH ALBERT 2-8C5	08	030S	050W	4301330543	5495	FEE	OW	S	
VODA JOSEPHINE 2-19C5	19	030S	050W	4301330553	5650	FEE	OW	S	
HANSEN 1-16B3	16	020S	030W	4301330617	9124	FEE	OW	S	
BROTHERSON 1-25B4	25	020S	040W	4301330668	9126	FEE	OW	S	
POWELL 2-33A3	33	010S	030W	4301330704	2400	FEE	OW	S	
BROWN 2-28B5	28	020S	050W	4301330718	9131	FEE	OW	S	
EULA-UTE 1-16A1	16	010S	010W	4301330782	8443	FEE	OW	S	
JESSEN 1-15A4	15	010S	040W	4301330817	9345	FEE	OW	S	
R HOUSTON 1-22Z1	22	010N	010W	4301330884	936	FEE	OW	S	
FIELDSTED 2-27A4	27	010S	040W	4301330915	9632	FEE	OW	S	
HANSKUTT 2-23B5	23	020S	050W	4301330917	9600	FEE	OW	S	
TIMOTHY 3-18A3	18	010S	030W	4301330940	9633	FEE	OW	S	
BROTHERSON 2-3B4	03	020S	040W	4301331008	10165	FEE	OW	S	
BROTHERSON 2-22B4	22	020S	040W	4301331086	1782	FEE	OW	S	
MILES 2-35A4	35	010S	040W	4301331087	1966	FEE	OW	S	
ELLSWORTH 2-17B4	17	020S	040W	4301331089	1696	FEE	OW	S	
RUST 2-36A4	36	010S	040W	4301331092	1577	FEE	OW	S	
EVANS 2-19B3	19	020S	030W	4301331113	1777	FEE	OW	S	
FARNSWORTH 2-12B5	12	020S	050W	4301331115	1646	FEE	OW	S	
CHRISTENSEN 3-4B4	04	020S	040W	4301331142	10481	FEE	OW	S	
ROBERTSON 2-29A2	29	010S	020W	4301331150	10679	FEE	OW	S	
CEDAR RIM 2A	20	030S	060W	4301331172	10671	FEE	OW	S	



HARTMAN 2-31A3	31	010S	030W	4301331243	11026	FEE	OW	S	
GOODRICH 2-2B3	02	020S	030W	4301331246	11037	FEE	OW	S	
JESSEN 2-21A4	21	010S	040W	4301331256	11061	FEE	OW	S	
BROTHERSON 3-23B4	23	020S	040W	4301331289	11141	FEE	OW	S	
MYRIN RANCH 2-18B3	18	020S	030W	4301331297	11475	FEE	OW	S	
BROTHERSON 2-2B5	02	020S	050W	4301331302	11342	FEE	OW	S	
DASTRUP 2-30A3	30	010S	030W	4301331320	11253	FEE	OW	S	
YOUNG 2-30B4	30	020S	040W	4301331366	11453	FEE	OW	S	
IORG 2-10B3	10	020S	030W	4301331388	11482	FEE	OW	S	
MONSEN 3-27A3	27	010S	030W	4301331401	11686	FEE	OW	S	
HORROCKS 2-5B1E	05	020S	010E	4304732409	11481	FEE	OW	S	
LARSEN 1-25A1	25	010S	010W	4304730552	815	FEE	OW	TA	
DRY GULCH 1-36A1	36	010S	010W	4304730569	820	FEE	OW	TA	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> LAKE FORK RANCH 4-23B4
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. API NUMBER:</b> 43013507130000
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
		<b>COUNTY:</b> DUCHESNE
		<b>STATE:</b> UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>10/29/2012</b>	<input checked="" type="checkbox"/> ACIDIZE
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<input type="checkbox"/> CHANGE WELL STATUS
	<input type="checkbox"/> DEEPEN
	<input type="checkbox"/> OPERATOR CHANGE
	<input type="checkbox"/> PRODUCTION START OR RESUME
	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> WATER SHUTOFF
	<input type="checkbox"/> WILDCAT WELL DETERMINATION
	<input type="checkbox"/> CHANGE TUBING
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> PLUG AND ABANDON
	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> OTHER
	<input type="checkbox"/> CASING REPAIR
	<input type="checkbox"/> CHANGE WELL NAME
	<input type="checkbox"/> CONVERT WELL TYPE
	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> APD EXTENSION
	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EP plans to add additional perfs to the Wasatch from 10587' - 10760' and acidize with 25000 gals of 15% HCL. See attached procedure for detailed information.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** October 29, 2012

**By:** 

<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 997-5038	<b>TITLE</b> Principal Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/29/2012	

## **Lake Fork Ranch 4-23B4 Summary Procedure**

- POOH w/Rods & pump, Release anchor, POOH w/tubing string
- Circulate & Clean wellbore
- RIH with 4-1/2"CBP, set plug at ~10,775'
- Perforate new UW interval from ~10,587' – 10,760'
- Acidize perforations with 25,000 gals of 15% HCL
- Drill out CBP at 10,775'
- RIH w/tubing, pump & rods
- Clean location and resume production

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LAKE FORK RANCH 4-23B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013507130000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FSL 1382 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/10/2012	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input checked="" type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached post work procedure summary for details.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**  
 February 13, 2013

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 1/31/2013

## **Lake Fork Ranch 4-23B4 Post Work Summary Procedure**

- POOH w/Rods & pump, Release anchor, POOH w/tubing string
- Circulate & Clean wellbore
- Set CBP @ 10,775'.
- Perforated Wasatch interval from 10,587' – 10,752'
- Acidized perforations with 25,000 gals of 15% HCL
- Drilled out CBP at 10,775'
- RIH w/tubing, pump & rods
- Cleaned location and resumed production

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> LAKE FORK RANCH 4-23B4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013507130000
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: <b>2/19/2013</b>  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input checked="" type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION         </div> </div> <div style="margin-top: 10px;">           OTHER: <span style="border: 1px solid black; padding: 2px;">repair rod</span> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. <div style="text-align: center; margin-top: 20px;">             See attachment for procedure.           </div> <div style="text-align: right; margin-top: 20px;"> <b>Approved by the Utah Division of Oil, Gas and Mining</b>   <b>Date:</b> February 19, 2013  <b>By:</b> </div>		
<b>NAME (PLEASE PRINT)</b> Lisa Morales	<b>PHONE NUMBER</b> 713 997-3587	<b>TITLE</b> Regulatory Analyst
<b>SIGNATURE</b> N/A		<b>DATE</b> 2/18/2013



## Lake Fork Ranch 4-23B4 Rod Part Procedure Summary

- POOH w/rods, pump, and tubing
- Acidize existing perms w/ 5,000 gal 15% HCl.
- RIH w/ BHA, tubing and rod string
- Clean location and resume production

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: LAKE FORK RANCH 4-23B4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013507130000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FSL 1382 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA


TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <b>12/9/2013</b>	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION  OTHER: <input type="text"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Set plug at ~10510' to isolate Wasatch sand and recomplete into the LGR. See attached for details.

**Approved by the  
Utah Division of  
Oil, Gas and Mining**

**Date:** December 04, 2013

**By:** 

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A		DATE 12/4/2013

## **Lakefork Ranch 4-23B4 Summary Procedure**

- POOH w/Rods & pump, Release anchor, POOH w/tubing string
- Circulate & Clean wellbore
- RIH with 7"CBP, set plug at ~10,510', dump bail 10' cement on top
- Perforate newLGR interval from ~10,183' – 10,485'
- Acidize perforations with 20,000 gals of 15% HCL
- RIH with 7"CBP, set plug at ~10,045'
- Perforate newLGR interval from ~9,660' – 10,037'
- Acidize perforations with 20,000 gals of 15% HCL
- Clean out well drilling up 7" CBP at ~10,045'
- RIH w/tubing, pump & rods
- Clean location and resume production, leaving CBP @ ~10,510' (this may be drilled up at a later date and commingled).



GARY R. HERBERT  
Governor

SPENCER J. COX  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

June 3, 2014

Thomas Iglehart  
EP ENERGY E&P COMPANY, L.P.  
1001 Louisiana  
Houston, TX 77002

RE: Designation of Workover or Recompletion, Form 15.

Dear Thomas Iglehart,

Enclosed is a copy of the referenced form received by the Division of Oil, Gas and Mining for the LAKE FORK RANCH 4-23B4 well (43013507130000). Total expenses in the amount of \$ 290393.04 were submitted for the Production Enhancement work that commenced on December 11, 2013 and was completed on December 19, 2013.

The total submitted expenses fall within the statutory definition of workover or recompletion. ***Therefore, your request for designation of the expenses as qualifying workover recompletion expenses is being approved as submitted for the amount of \$ 290393.04.***

Please contact me at (801) 538-5281 if you require further information regarding this matter. Thank you.

Sincerely,

Dustin K Doucet  
Petroleum Engineer

Enclosures

cc: Utah Tax Commission w/enclosure  
Operator file

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

FORM 15

AMENDED REPORT

Original Filing Date: 3/18/2014

**DESIGNATION OF WORKOVER OR RECOMPLETION**

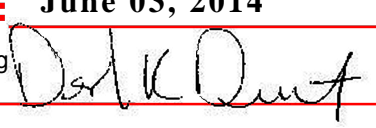
<b>1. Name of Operator</b> EP ENERGY E&P COMPANY, L.P.	<b>2. Utah Account Number</b> 83850.0	<b>5. Well Name and Number</b> LAKE FORK RANCH 4-23B4
<b>3. Address of Operator</b> <b>City</b> State      Zip 1001 Louisiana Houston TX 77002	<b>4. Phone Number</b> 713 997-5038	<b>6. API Number</b> 4301350713
<b>9. Location of Well</b>  Footage: 1093 FSL 1382 FEL      County: DUCHESNE QQ, Sec, Twnp, Rnge: SWSE 23 020S 040W      State : UTAH		<b>7. Field Name</b> ALTAMONT  <b>8. Field Code Number</b> 55

**COMPLETE ALL SECTIONS. ATTACH ADDITIONAL SHEETS IF NEEDED.**

<b>10. TYPE OF WORK (Check all that apply)</b> <input checked="" type="checkbox"/> Production enhancement <input type="checkbox"/> Recompletion <input type="checkbox"/> Convert to injection <input type="checkbox"/> Repair well	<b>11. WORK PERIOD</b> Date work commenced: 12/11/2013 <b>89 Days From</b> Date work completed: 12/19/2013 <b>Completion</b>
--	--

**12. THE FOLLOWING EXPENSES ARE SUBMITTED FOR DESIGNATION AS WORKOVER OR RECOMPLETION EXPENSES:**

Description Of Work	Expenses	Approved By State
a. Location preparation and cleanup	517.50	517.50
b. Move-in, rig-up, and rig-down (including trucking)	2796.18	2796.18
c. Rig charges (including fuel)	66160.38	66160.38
d. Drill pipe or other working string	0.00	0.00
e. Water and chemicals for circulating fluid (including water hauling)	10216.25	10216.25
f. Equipment purchase	7829.37	7829.37
g. Equipment rental	26760.25	26760.25
h. Cementing	0.00	0.00
i. Perforating	27997.94	27997.94
j. Acidizing	126488.45	126488.45
k. Fracture stimulation	0.00	0.00
l. Logging services	0.00	0.00
m. Supervision and overhead	14189.22	14189.22
n. Other (itemize)	7437.50	7437.50
Swabbing	0.00	0.00
	0.00	0.00
	0.00	0.00
	0.00	0.00
o. Total submitted expenses	290393.04	
p. Total approved expenses (State use only)		290393.04

Approved by the  
 Utah Division of  
 Oil, Gas and Mining  
  
 Date: June 03, 2014  
 By: 

13. LIST CONTRACTORS PROVIDING SERVICES VALUED AT MORE THAN \$3,000.		
Contractor	Location (City, State)	Services Provided
NABORS COMPLETION and PRODUCTION SERVICES	Roosevelt Utah	Rig Charges
WEATHERFORD US LP	Roosevelt Utah	Stimulation Acid/Frac
PLATINUM PRESSURE PUMPING INC	Vernal Utah	Equipment Rental

14. LIST WORKING INTEREST OWNERS WHO TAKE PRODUCT IN KIND AND ARE AUTHORIZED TO SHARE IN THE TAX CREDIT.			
Name	Address	Utah Account No.	Percent of Interest

**I hereby certify that this report is true and complete to the best of my knowledge.**

NAME (PLEASE PRINT) Thomas Iglehart

TITLE Senior Accountant

PHONE 713 997-2791

SIGNATURE Thomas Iglehart

DATE March 18, 2014

E-MAIL thomas.iglehart@epenergy.com

RECEIVED: Mar. 18, 2014

**STATE OF UTAH**  
**DEPARTMENT OF NATURAL RESOURCES**  
**DIVISION OF OIL, GAS AND MINING**

FORM 15  
 AMENDED REPORT  
 Original Filing Date:

**DESIGNATION OF WORKOVER OR RECOMPLETION**

1. Name of Operator EP Energy E&P Company, LP	2. Utah Account No.: N3850	5. Well Name & Number.: LAKE FORK RANCH 4-23B4
3. Address of Operator 1001 Louisiana Houston, TX 77002	4. Phone No. (713) 997-2791	6. API No. 43-013-50713
9. Location of Well: Footage: 1093 FSL 1382 FEL County DUCHESNE QQ, Section, Township, Range SWSE 23 2S 4W State UTAH		7. Field Name ALTAMONT
		8. Field Code No. 055

**COMPLETE ALL SECTIONS. ATTACH ADDITIONAL SHEETS IF NEEDED.**

10. TYPE OF WORK (Check all that apply) <input checked="" type="checkbox"/> Production Enhancement <input type="checkbox"/> Recompletion <input type="checkbox"/> Convert to injection <input type="checkbox"/> Repair Well	11. WORK PERIOD Date work commenced 12/11/2013 Date work completed 12/19/2013
---	---

12. THE FOLLOWING EXPENSES FOR OPERATIONS ARE SUBMITTED FOR DESIGNATION AS WORKOVER OR RECOMPLETION EXPENSES

	Expenses	Approved by State
a. Location preparation and cleanup	517.50	
b. Move-in, rig-up and rig-down (including trucking)	2796.18	
c. Rig Charges (including fuel)	66160.38	
d. Drill pipe or other working string		
e. Water and chemicals for circulating fluid (including water hauling)	10216.25	
f. Equipment purchase	7829.37	
g. Equipment rental	26760.25	
h. Cementing		
i. Perforating	27997.94	
j. Acidizing	126488.45	
k. Fracture stimulation		
l. Logging services		
m. Supervision and overhead	14189.22	
n. Other(Itemize) Swabbing	7437.50	
o. Total submitted expenses	290393.04	
p. Total approved expenses (State use only)		

13. LIST CONTRACTORS PROVIDING SERVICES VALUED AT MORE THAN \$3,000

Contractor	Location (City, State)	Services Provided
NABORS COMPLETION & PRODUCTION SERVICES	ROOSEVELT, UTAH	Rig Charges
PLATINUM PRESSURE PUMPING INC	ROOSEVELT, UTAH	Stimulation (Acid/Frac)
WEATHERFORD US LP	VERNAL, UTAH	Equipment Rental

14. LIST WORKING INTEREST OWNERS WHO TAKE PRODUCT IN KIND AND ARE AUTHORIZED TO SHARE IN THE TAX CREDIT

Name	Address	Utah Account No.	Percent of Interest
------	---------	------------------	---------------------

I hereby certify that this report is true and complete to the best of my knowledge.

Name (Please Print) <u>Thomas Iglehart</u>	Title: <u>Accountant</u>
Signature: 	Date: <u>3/18/2014</u>



Tax Credit Number: 48911 API Well Number: 43013507130000

Sundry Number: 45616 API Well Number: 43013507130000

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee																														
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:																														
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:																														
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: LAKE FORK RANCH 4-23B4																														
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FSL 1382 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013507130000																														
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		9. FIELD and POOL or WILDCAT: ALTAMONT																														
TYPE OF SUBMISSION	TYPE OF ACTION																															
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/9/2013  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:	<table border="0" style="width: 100%;"> <tr> <td><input type="checkbox"/> ACIDIZE</td> <td><input type="checkbox"/> ALTER CASING</td> <td><input type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td><input type="checkbox"/> CHANGE TUBING</td> <td><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td><input type="checkbox"/> CHANGE WELL STATUS</td> <td><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td><input type="checkbox"/> DEEPEN</td> <td><input type="checkbox"/> FRACTURE TREAT</td> <td><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td><input type="checkbox"/> OPERATOR CHANGE</td> <td><input type="checkbox"/> PLUG AND ABANDON</td> <td><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td><input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td><input type="checkbox"/> TUBING REPAIR</td> <td><input type="checkbox"/> VENT OR FLARE</td> <td><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td><input type="checkbox"/> WATER SHUTOFF</td> <td><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td><input type="checkbox"/> OTHER</td> <td>OTHER: <input style="width: 100px;" type="text"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR																														
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<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Set plug at ~10510' to isolate Wasatch sand and recomplete into the LGR. See attached for details.																																
NAME (PLEASE PRINT) Maria S. Gomez		TITLE Principal Regulatory Analyst																														
SIGNATURE N/A		DATE 12/4/2013																														

RECEIVED: Dec. 04, 2013

Tax Credit Number: 48911 API Well Number: 43013507130000

Sundry Number: 45616 API Well Number: 43013507130000

## **Lakefork Ranch 4-23B4 Summary Procedure**

- POOH w/Rods & pump, Release anchor, POOH w/tubing string
- Circulate & Clean wellbore
- RIH with 7"CBP, set plug at ~10,510', dump bail 10' cement on top
- Perforate newLGR interval from ~10,183' – 10,485'
- Acidize perforations with 20,000 gals of 15% HCL
- RIH with 7"CBP, set plug at ~10,045'
- Perforate newLGR interval from ~9,660' – 10,037'
- Acidize perforations with 20,000 gals of 15% HCL
- Clean out well drilling up 7" CBP at ~10,045'
- RIH w/tubing, pump & rods
- Clean location and resume production, leaving CBP @ ~10,510' (this may be drilled up at a later date and commingled).

RECEIVED: Dec. 04, 2013

Tax Credit Number: 48911 API Well Number: 43013507130000

Sundry Number: 48904 API Well Number: 43013507130000

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: LAKE FORK RANCH 4-23B4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1093 FSL 1382 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013507130000
9. FIELD and POOL or WILDCAT: ALTAMONT		9. COUNTY: DUCHESNE
9. STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input checked="" type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/19/2014	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	
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<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Set CBP @ 10515' w 10' cmt on top. Set CBP @ 10500', bled down pressure and dumped 5' cmt on top. Perforated 10485'-10183' and treated with 20,000 gals 15% HCL acid. Perforated 10037'-9660' and treated with 20,000 gals 15% HCL acid. Put well on production. See attached for details.		
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 3/18/2014	

RECEIVED: Mar. 18, 2014



Tax Credit Number: 48911 API Well Number: 43013507130000

Sundry Number: 48904 API Well Number: 43013507130000

## CENTRAL DIVISION

ALTAMONT FIELD  
LAKE FORK RANCH 4-23B4  
LAKE FORK RANCH 4-23B4  
RECOMPLETE LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

RECEIVED: Mar. 18, 2014

**1 General****1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

**1.2 Well Information**

Well	LAKE FORK RANCH 4-23B4		
Project	ALTAMONT FIELD	Site	LAKE FORK RANCH 4-23B4
Rig Name/No.		Event	RECOMPLETE LAND
Start Date	12/11/2013	End Date	12/20/2013
Spud Date/Time	11/14/2011	UWI	LAKE FORK RANCH 4-23B4
Active Datum	KB @6,330.0ft (above Mean Sea Level)		
Afe No./Description	162232/50400 / LAKE FORK RANCH 4-23B4		

**2 Summary****2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
12/11/2013	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON MOVING RIG. FILLED OUT JSA.
	7:30 12:00	4.50	MIRU	01		P		MOVED RIG FROM THE 3-2A2 TO THE 4-23B4 SLID ROTAFLEX BACK PUMPED 100 BBLs DOWN CSG. MIRU.
	12:00 13:30	1.50	PRDHEQ	14		P		LD POLISH ROD. WELL WAS VERY WAXY. WORKED PUMP OFF SEAT WHILE PUMPING 70 BBLs DOWN CSG. LD SUBSAND 3-1" RODS PU POLISH ROD.
	13:30 15:00	1.50	PRDHEQ	06		P		FLUSHED TBGW/ 60 BBLs. HAD TO STROKE POLISH ROD TO GET TO FLUSH.
	15:00 17:00	2.00	PRDHEQ	39		P		TOOH W/ 115-1", 120-7/8" AND 2-3/4" RODS. PU POLISH ROD SECURED WELL SDFN.
12/12/2013	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING RODS FILLED OUT JSA.
	7:30 8:00	0.50	PRDHEQ	06		P		FLUSHED TBG W/ 30 BBLs.
	8:00 9:00	1.00	PRDHEQ	39		P		TOOH W/ 163-3/4" RODS, 9-1 1/2" WEIGHT BARS AND 2 1/2" X 1 3/4" X 38' PUMP.
	9:00 11:00	2.00	PRDHEQ	16		P		CHANGED OVER TO PULL TUBING. ND WELLHEAD AND FLOW LINE. NU BOP. RU RIG FLOOR RELEASED TAC.
	11:00 12:00	1.00	PRDHEQ	06		P		FLUSHED TBG W/ 60 BBLs.
	12:00 15:30	3.50	PRDHEQ	39		P		TOOH W/ 325-JTS 2 7/8 L-80 EUE TBG, 7" TAC, 4-JTS 2 7/8 L-80 EUE TBG AND BHA.
	15:30 20:30	5.00	WLWORK	27		P		RU WIRELINE RIH SET CBP @ 10515'. RIH DUMPED BAILED 10' CEM ON CBP. RD WIRELINE SECURED WELL SDFN.
12/13/2013	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOWN BOP FILLED OUT JSA
	7:30 9:30	2.00	WBP	18		P		FILLED CSG W/ 358-BBLs 2% KCL. FLUID LEVEL @ 9600'. PRESSURE TEST @ 3500 PSI HELD.
	9:30 10:30	1.00	WBP	16		P		ND 5 K BOP.
	10:30 13:00	2.50	WHD TRE	42		N		FRAC STACK SUPPOSE TO BE ON LOCATION @ 10:00 DIDN'T ARRIVE UNTIL 12:00 WITH NO SPOOL. WAIT ON WIRELINE.
	13:00 19:00	6.00	WLWORK	27		P		RU WIRELINE. RIH PUT 2000 PSI ON WELL SET CBP @ 10500' BLED DOWN PRESSURE. RIH W/ DUMP BAILER DUMPED BAILED 5' CEM ON TOP OF CBP. RD WIRELINE SECURED WELL SDFN.

12/14/2013



## CENTRAL DIVISION

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duratio n (hr)	Phase	Activit y	Sub	OP Code	MD From (ft)	Operation
	6:00 7:30	1.50	WHDTRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOW BOP. FILLED OUT JSA
	7:30 15:00	7.50	WHDTRE	16		P		ND 5K BOP. NU 7" MANUAL FRAC VALVE, 7" HCR VALVE, 7" GOAT HEAD, 7" HCR VALVE AND WIRELINE FLANGE. PRESUURE TEST CSG @ 8000 PSI FOR 15 MIN NO LEAK. PRESURE TEST FRAC STACK @ 10000 PSI HELD,
	15:00 17:00	2.00	WLWORK	21		P		PERFORATED STAGE #1 FROM 10485' TO 10183'. 17 NET FT. 51 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 JSPF, 120 PHASING. CORRELATED TO LONE WOLF WIRELINE CBL-GR/CCL LOG RUN 1 23-DEC-11. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 0 PSI. TURNED WELL OVER TO FRAC CREW.
	17:00 17:00	0.00	STG01	35		P		OPENED UP WELL W/ 0 PSI. BREAK DOWN STAGE #1 PERFS @ 3630 PSI, 10 BPM, 21 BBLS. ISIP 3071 PSI. PUMPED 2000 GALS 1% NPD. 20 BBL SPACER. TREATED PERFS W/ 10,000 GALS 15% HCLACID DROPPED 75 BIO-BALLS. PUMPED 10,000 GALS 15% HCLACID. FLUSHED W/ 400 BBLS. AVG RATE 29 BPM, MAX RATE 40 BPM, AVG PRESS 4216 PSI MAX PRESS 8000 PSI. I.S.I.P. 3561 PSI F.G. .77, 5 MIN 3260 PSI, 10 MIN 3185 PSI, 15 MIN 3165 PSI. SECURED WELL SDFN.
12/15/2013	6:00 7:30	1.50	STG02	28		P		CREW TRAVEL HELD SAFETY MEETING ON PERFORATING WELL. FILLED OUT JSA.
	7:30 11:30	4.00	STG02	21		P		PERFORATED STAGE #2 MADE 2 RUNS FIRST RUN SET CBP @ 10050' W/ 1800 PSI. FROM 10037' TO 9660'. 22 NET FT. 66 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 JSPF, 120 PHASING. CORRELATED TO LONE WOLF WIRELINE CBL-GR/CCL LOG RUN 1 23-DEC-11. STARTING PRESSURE 1800 PSI. FINAL PRESSURE 1700 PSI. RD WIRELINE. TURNED WELL OVER TO FRAC CREW.
	11:30 14:00	2.50	STG02	35		P		OPENED UP WELL W/ 1380 PSI. BREAK DOWN STAGE #2 PERFS @ 2730 PSI, 9 BPM, 12 BBLS. ISIP 2170 PSI. PUMPED 2000 GALS 1% NPD. 20 BBL SPACER. TREATED PERFS W/ 10,000 GALS 15% HCLACID DROPPED 100 BIO-BALLS. PUMPED 10,000 GALS 15% HCLACID. FLUSHED W/ 400 BBLS. AVG RATE 24.5 BPM, MAX RATE 40 BPM, AVG PRESS 3348 PSI MAX PRESS 8000 PSI. I.S.I.P. 2235 PSI F.G. .66, 5 MIN 1919 PSI, 10 MIN 1825 PSI, 15 MIN 1723 PSI. RD FRAC EQUIPMENT.
	14:00 18:00	4.00	FB	19		P		OPENED WELL AT 14:00. ON 16/64 CHOKE WITH 1200 PSI. 100 PSI, 64/64 CHOKE, 120 BBLS WATER. 0 OIL, 0 GAS. SHUT IN WELL DRAINED LINES.
12/16/2013	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY
12/17/2013	6:00 7:30	1.50	WHDTRE	28		P		CREW TRAVEL HELD SAFETY MEETING. ON NIPPLING DOWN FRAC VALVES. FILLED OUT JSA.
	7:30 12:30	5.00	WHDTRE	16		P		100 CSIP. BLED DOWN WELL FLOWING A LITTLE WATER. ND WIRELINE HEAD, 7" HCR VALVE, 7" GOAT HEAD, 7" HCR. NIPPLED UP X-OVER AND 5K BOP. RU RIG FLOOR.
	12:30 16:00	3.50	PRDHEQ	39		P		TALLIED AND RIH W/ 6" BIT, BIT SUB AND 304-JTS 2 7/8 L-80 EUE TBG. EOT @ 9575' PUMPED 5 BBLS BRINE DOWN TBG AND 10 BBLS BRINE DOWN CSG. SECURED WELL SDFN.
12/18/2013	6:00 7:30	1.50	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP POWER SWIVEL. FILLED OUT JSA.
	7:30 10:00	2.50	WBP	39		P		RIH W/ 15-JTS 2 7/8 L-80 EUE TBG. TAGGED CBP @ 10042' RU POWER SWIVEL AND PUMP LINES. PUMPED 0 BBLS GOT REVERVSE CIRCULATION.



## CENTRAL DIVISION

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
12/19/2013	10:00 14:00	4.00	WBP	10		P		DRILLED UP CBP @ 10042'. CIRC TBG CLEAN PUMPED 20 BBLS BRINE DOWN TBG. RD POWER SWIVEL RIH TAGGED CEM TOP @ 10490'
	14:00 16:00	2.00	WBP	39		P		LD 38-JTS 2 7/8 L-80 EUE TBG. STOOD 104 IN DERRICK. EOT @ 5995' SECURED WELL DRAINED PUMP LINES SDFN.
	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT JSA.
	7:30 9:00	1.50	WBP	06		P		200 TSIP, 200 CSIP. BLED DOWN WELL. CIRC WELL WITH 230 BBLS BRINE.
	9:00 11:30	2.50	WBP	39		P		POOH W/ 190-JTS 2 7/8 L-80 EUE TBG BIT SUB AND BIT SUB.
	11:30 15:00	3.50	WBP	39		P		RIH W/ 5 3/4 SOLID NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, 2' 2 7/8 TBG SUB, SN, 4' 2 7/8 TBG SUB, 4-JTS 27/8 L-80 EUE TBG, 7" TAC AND 290-JTS 2 7/8 EUE TBG. SET TAC @ 9169', SN 9302', EOT 9401'.
12/20/2013	15:00 17:00	2.00	WBP	16		P		ND BOP, ND FRAC VALVE, NU FLOW LINE SECURED WELL SDFN.
	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON FLUSHING TBG. FILLED OUT JSA.
	7:30 10:00	2.50	WBP	06		P		FLUSHED TBG W/ 60 BBLS 2% KCL. WELL STARTED TO CIRCULATE. PUMPED 60 BBLS BRINE RETURNED 70 BBLS TO TREATER.
	10:00 15:30	5.50	WBP	39		P		PU AND PRIMED 2 1/2" X 1 3/4" X 38' RHBC PUMP. RIH W/ PUMP 18-1 1/2" K BARS, 165-3/4"( LD 59-3/4"), 143-7/8", 101-1" SPACED OUT RODS WITH 1-2', 1-6' X 1" SUBS. PU POLISH ROD. FILLED TBG W/ 1 BBL, PRESSURE AND STROKE TEST @ 1000 PSI HELD.
	15:30 18:00	2.50	RDMO	02		P		RD RIG. SLID ROTA-FLEX. PUT WELL ON PRODUCTION.

Tax Credit Number: 48911 API Well Number: 43013507130000

Sundry Number: 48904 API Well Number: 43013507130000

CENTRAL DIVISION

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<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> Fee
<b>1. TYPE OF WELL</b> Oil Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> EP ENERGY E&P COMPANY, L.P.		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1001 Louisiana, Houston, TX, 77002		<b>8. WELL NAME and NUMBER:</b> LAKE FORK RANCH 4-23B4
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1093 FSL 1382 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWSE Section: 23 Township: 02.0S Range: 04.0W Meridian: U		<b>9. API NUMBER:</b> 43013507130000
<b>PHONE NUMBER:</b> 713 997-5038 Ext		<b>9. FIELD and POOL or WILDCAT:</b> ALTAMONT
<b>COUNTY:</b> DUCHESNE		<b>STATE:</b> UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <b>4/10/2014</b>  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input type="checkbox"/> DRILLING REPORT Report Date:
OTHER: <input style="width: 100px;" type="text" value="DO Plugs"/>				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
 Drilled out CBP @ 10515' & 10' cement and CBP @ 10500'. See attached daily reports. Thanks,

Accepted by the  
 Utah Division of  
 Oil, Gas and Mining  
**FOR RECORD ONLY**  
 July 30, 2014

<b>NAME (PLEASE PRINT)</b> Maria S. Gomez	<b>PHONE NUMBER</b> 713 997-5038	<b>TITLE</b> Principal Regulatory Analyst
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/3/2014	

## CENTRAL DIVISION

ALTAMONT FIELD  
LAKE FORK RANCH 4-23B4  
LAKE FORK RANCH 4-23B4  
RECOMPLETE LAND

### Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner (s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

## 1 General

### 1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

### 1.2 Well Information

Well	LAKE FORK RANCH 4-23B4		
Project	ALTAMONT FIELD	Site	LAKE FORK RANCH 4-23B4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	12/11/2013	End date	12/20/2013
Spud Date/Time	11/14/2011	UWI	LAKE FORK RANCH 4-23B4
Active datum	KB @6,330.0usft (above Mean Sea Level)		
Afe No./Description	162232/50400 / LAKE FORK RANCH 4-23B4		

## 2 Summary

### 2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
12/11/2013	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON MOVING RIG. FILLED OUT JSA.
	7:30 12:00	4.50	MIRU	01		P		MOVED RIG FROM THE 3-2A2 TO THE 4-23B4 SLID ROTAFLEX BACK PUMPED 100 BBLS DOWN CSG. MIRU.
	12:00 13:30	1.50	PRDHEQ	14		P		LD POLISH ROD. WELL WAS VERY WAXY. WORKED PUMP OFF SEAT WHILE PUMPING 70 BBLS DOWN CSG. LD SUBSAND 3-1" RODS PU POLISH ROD.
	13:30 15:00	1.50	PRDHEQ	06		P		FLUSHED TBGW/ 60 BBLS. HAD TO STROKE POLISH ROD TO GET TO FLUSH.
	15:00 17:00	2.00	PRDHEQ	39		P		TOOH W/ 115-1", 120-7/8" AND 2-3/4" RODS. PU POLISH ROD SECURED WELL SDFN.
12/12/2013	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING RODS FILLED OUT JSA.
	7:30 8:00	0.50	PRDHEQ	06		P		FLUSHED TBG W/ 30 BBLS .
	8:00 9:00	1.00	PRDHEQ	39		P		TOOH W/ 163-3/4" RODS, 9-1 1/2" WEIGHT BARS AND 2 1/2"X 1 3/4" X 38' PUMP.
	9:00 11:00	2.00	PRDHEQ	16		P		CHANGED OVER TO PULL TUBING. ND WELLHEAD AND FLOW LINE. NU BOP. RU RIG FLOOR RELEASED TAC.
	11:00 12:00	1.00	PRDHEQ	06		P		FLUSHED TBG W/ 60 BBLS.
	12:00 15:30	3.50	PRDHEQ	39		P		TOOH W/ 325-JTS 2 7/8 L-80 EUE TBG, 7" TAC, 4-JTS 2 7/8 L-80 EUE TBG AND BHA.
	15:30 20:30	5.00	WLWORK	27		P		RU WIRELINE RIH SET CBP @ 10515'. RIH DUMPED BAILED 10' CEM ON CBP. RD WIRELINE SECURED WELL SDFN.
12/13/2013	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOWN BOP FILLED OUT JSA
	7:30 9:30	2.00	WBP	18		P		FILLED CSG W/ 358-BBLS 2% KCL. FLUID LEVEL @ 9600'. PRESSURE TEST @ 3500 PSI HELD.
	9:30 10:30	1.00	WBP	16		P		ND 5 K BOP.
	10:30 13:00	2.50	WHD TRE	42		N		FRAC STACK SUPPOSE TO BE ON LOCATION @ 10:00 DIDN'T ARRIVE UNTIL 12:00 WITH NO SPOOL. WAIT ON WIRELINE.
	13:00 19:00	6.00	WLWORK	27		P		RU WIRELINE. RIH PUT 2000 PSI ON WELL SET CBP @ 10500' BLED DOWN PRESSURE. RIH W/ DUMP BAILER DUMPED BAILED 5' CEM ON TOP OF CBP. RD WIRELINE SECURED WELL SDFN.
12/14/2013	6:00 7:30	1.50	WHD TRE	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING DOW BOP. FILLED OUT JSA

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 15:00	7.50	WHD TRE	16		P		ND 5K BOP. NU 7" MANUAL FRAC VALVE, 7" HCR VALVE, 7" GOAT HEAD, 7" HCR VALVE AND WIRELINE FLANGE. PRESUURE TEST CSG @ 8000 PSI FOR 15 MIN NO LEAK. PRESURE TEST FRAC STACK @ 10000 PSI HELD,
	15:00 17:00	2.00	WLWORK	21		P		PERFORATED STAGE #1 FROM 10485' TO 10183'. 17 NET FT. 51 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 JSPF, 120 PHASING. CORRELATED TO LONE WOLF WIRELINE CBL-GR/CCL LOG RUN 1 23-DEC-11. STARTING PRESSURE 1000 PSI. FINAL PRESSURE 0 PSI. TURNED WELL OVER TO FRAC CREW.
	17:00 17:00	0.00	STG01	35		P		OPENED UP WELL W/ 0 PSI. BREAK DOWN STAGE #1 PERFS @ 3630 PSI, 10 BPM, 21 BBLS. ISIP 3071 PSI. PUMPED 2000 GALS 1% NPD. 20 BBL SPACER. TREATED PERFS W/ 10,000 GALS 15% HCL ACID DROPPED 75 BIO-BALLS. PUMPED 10,000 GALS 15% HCL ACID. FLUSHED W/ 400 BBLS. AVG RATE 29 BPM, MAX RATE 40 BPM, AVG PRESS 4216 PSI MAX PRESS 8000 PSI. I.S.I.P. 3561 PSI F.G. .77, 5 MIN 3260 PSI, 10 MIN 3185 PSI, 15 MIN 3165 PSI. SECURED WELL SDFN.
12/15/2013	6:00 7:30	1.50	STG02	28		P		CREW TRAVEL HELD SAFETY MEETING ON PERFORATING WELL. FILLED OUT JSA.
	7:30 11:30	4.00	STG02	21		P		PERFORATED STAGE #2 MADE 2 RUNS FIRST RUN SET CBP @ 10050' W/ 1800 PSI. FROM 10037' TO 9660'. 22 NET FT. 66 SHOTS. USING 3 1/8" GUNS, 22.7 GM CHARGES, 3 JSPF, 120 PHASING. CORRELATED TO LONE WOLF WIRELINE CBL-GR/CCL LOG RUN 1 23-DEC-11. STARTING PRESSURE 1800 PSI. FINAL PRESSURE 1700 PSI. RD WIRELINE. TURNED WELL OVER TO FRAC CREW.
	11:30 14:00	2.50	STG02	35		P		OPENED UP WELL W/ 1380 PSI. BREAK DOWN STAGE #2 PERFS @ 2730 PSI, 9 BPM, 12 BBLS. ISIP 2170 PSI. PUMPED 2000 GALS 1% NPD. 20 BBL SPACER. TREATED PERFS W/ 10,000 GALS 15% HCL ACID DROPPED 100 BIO-BALLS. PUMPED 10,000 GALS 15% HCL ACID. FLUSHED W/ 400 BBLS. AVG RATE 24.5 BPM, MAX RATE 40 BPM, AVG PRESS 3348 PSI MAX PRESS 8000 PSI. I.S.I.P. 2235 PSI F.G. .66, 5 MIN 1919 PSI, 10 MIN 1825 PSI, 15 MIN 1723 PSI. RD FRAC EQUIPMENT.
	14:00 18:00	4.00	FB	19		P		OPENED WELL AT 14:00. ON 16/64 CHOKE WITH 1200 PSI. 100 PSI, 64/64 CHOKE, 120 BBLS WATER. 0 OIL, 0 GAS. SHUT IN WELL DRAINED LINES.
12/16/2013	6:00 6:00	24.00	PRDHEQ	18		P		NO ACTIVITY
12/17/2013	6:00 7:30	1.50	WHD TRE	28		P		CREW TRAVEL HELD SAFETY MEETING. ON NIPPLING DOWN FRAC VALVES. FILLED OUT JSA.
	7:30 12:30	5.00	WHD TRE	16		P		100 CSIP. BLED DOWN WELL FLOWING A LITTLE WATER. ND WIRELINE HEAD, 7" HCR VALVE, 7" GOAT HEAD, 7" HCR. NIPPLED UP X-OVER AND 5K BOP. RU RIG FLOOR.
	12:30 16:00	3.50	PRDHEQ	39		P		TALLIED AND RIH W/ 6" BIT, BIT SUB AND 304-JTS 2 7/8 L-80 EUE TBG. EOT @ 9575' PUMPED 5 BBLS BRINE DOWN TBG AND 10 BBLS BRINE DOWN CSG. SECURED WELL SDFN.
12/18/2013	6:00 7:30	1.50	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP POWER SWIVEL. FILLED OUT JSA.
	7:30 10:00	2.50	WBP	39		P		RIH W/ 15-JTS 2 7/8 L-80 EUE TBG. TAGGED CBP @ 10042' RU POWER SWIVEL AND PUMP LINES. PUMPED 0 BBLS GOT REVERVSE CIRCULATION.
	10:00 14:00	4.00	WBP	10		P		DRILLED UP CBP @ 10042'. CIRC TBG CLEAN PUMPED 20 BBLS BRINE DOWN TBG. RD POWER SWIVEL RIH TAGGED CEM TOP @ 10490'
	14:00 16:00	2.00	WBP	39		P		LD 38-JTS 2 7/8 L-80 EUE TBG. STOOD 104 IN DERRICK. EOT @ 5995' SECURED WELL DRAINED PUMP LINES SDFN.
12/19/2013	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT JSA.



## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:30 9:00	1.50	WBP	06		P		200 TSIP, 200 CSIP. BLEED DOWN WELL. CIRC WELL WITH 230 BBLS BRINE.
	9:00 11:30	2.50	WBP	39		P		POOH W/ 190-JTS 2 7/8 L-80 EUE TBG BIT SUB AND BIT SUB.
	11:30 15:00	3.50	WBP	39		P		RIH W/ 5 3/4 SOLID NO-GO, 2-JTS 2 7/8 L-80 EUE TBG, 5 1/2 PBGA, 2' 2 7/8 TBG SUB, SN, 4' 2 7/8 TBG SUB, 4-JTS 27/8 L-80 EUE TBG, 7" TAC AND 290-JTS 2 7/8 EUE TBG. SET TAC @ 9169', SN 9302', EOT 9401'.
	15:00 17:00	2.00	WBP	16		P		ND BOP, ND FRAC VALVE, NU FLOW LINE SECURED WELL SDFN.
12/20/2013	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON FLUSHING TBG. FILLED OUT JSA.
	7:30 10:00	2.50	WBP	06		P		FLUSHED TBG W/ 60 BBLS 2% KCL. WELL STARTED TO CIRCULATE. PUMPED 60 BBLS BRINE RETURNED 70 BBLS TO TREATER.
	10:00 15:30	5.50	WBP	39		P		PU AND PRIMED 2 1/2" X 1 3/4" X 38' RHBC PUMP. RIH W/ PUMP 18-1 1/2" K BARS, 165-3/4"( LD 59-3/4"), 143-7/8", 101-1" SPACED OUT RODS WITH 1-2', 1-6' X 1" SUBS. PU POLISH ROD. FILLED TBG W/ 1 BBL, PRESSURE AND STROKE TEST @ 1000 PSI HELD.
	15:30 18:00	2.50	RDMO	02		P		RD RIG. SLID ROTA-FLEX. PUT WELL ON PRODUCTION.
4/3/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; ROADING RIG
	7:00 9:00	2.00	MIRU	01		P		ROAD RIG FROM 4-14B4 TO LOCATION HSM UPDATE JSA TOPIC; RIGGING UP...TEST DEAD MEN MIRU
	9:00 10:30	1.50	PRDHEQ	39		P		L/D POLISH ROD AND PONY RODS UNSEAT PUMP FLUSH TBG w 60 BBLS OF HOT 2% KCL WATER
	10:30 15:00	4.50	PRDHEQ	39		P		TOH w RODS L/D PUMP
	15:00 16:30	1.50	PRDHEQ	16		P		N/D WELL HEAD N/U BOPE RELEASE TAC
	16:30 18:00	1.50	PRDHEQ	39		P		SOH w 96 JTS OF 2 7/8" TBG SECURE WELL SDFN
4/4/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; TRIPPING TBG
	7:00 9:00	2.00	PRDHEQ	28		P		HELD SAFETY STAND DOWN DID REINACTMENT OF ACCIDENT
	9:00 13:00	4.00	PRDHEQ	39		P		CONTINUE TOH w TBG L/D BHA
	13:00 15:00	2.00	PRDHEQ	39		P		P/U 6" ROCK BIT TIH w 298 JTS OF 2 7/8" TBG TO TOP OF PERFORATION SECURE WELL SDFW
4/7/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIGGING UP POWER SWIVEL
	7:00 9:00	2.00	PRDHEQ	39		P		FINISH TIH TTL OF 332 JTS OF 2 7/8" TBG TAG AT 10502 MTD R/U POWER SWIVEL
	9:00 10:30	1.50	PRDHEQ	06		P		ESTABLISH CIRC w 320 BBLS OF HOT 2% KCL WATER
	10:30 18:30	8.00	WOR	10		P		DRILL CMT AND 1ST 7" CBP DRILL CMT AND 2ND 7" CBP CIRC CLEAN TOH ABOVE PERFS SECURE WELL SDFN
4/8/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; TRIPPING TBG
	7:00 10:00	3.00	PRDHEQ	39		P		TOH w 318 JTS OF 2 7/8" TBG L/D 6" BIT
	10:00 12:30	2.50	WOR	18		N		SHUT DOWN FOR OSHA INVESTIGATION
	12:30 15:30	3.00	PRDHEQ	39		P		HSM UP DATE JSA TOPIC; PICKING UP TBG...P/U 3 3/4" ROCK BIT TALLY P/U 52 JTS OF 2 3/8" TBG CHANGE HANDLING TOOLS CONTINUE TIH w 2 7/8" TBG TAG AT 10578' TMD
	15:30 18:00	2.50	WOR	39		P		R/U POWER SWIVEL TAG PLUG REMAINS CHASE PLUG REMAINS TO 11390' UNABLE TO PUSH DEEPER R/D POWER SWIVEL TOH ABOVE LINER SECURE WELL SDFN AM ESTABLISH CIRC FINISH DRILLING PLUG REMAINS C/O TO PBTD AT 12190'
4/9/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; RIGGING UP POWER SWIVEL

## 2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:00 14:00	7.00	PRDHEQ	06		P		CSIP 100 PSI TISP ON VACUUM TIH w 2 7/8" TBG TAG AT 11980' R/U POWER SWIVEL PUMP DOWN 7" CSG WELL WOULD NOT CIRC C/O TO 12025' R/D POWER SWIVEL
	14:00 18:30	4.50	PRDHEQ	39		P		TOH w 326 JTS OF 2 7/8" TBG CHANGE HANDLING TOOL L/D 53 JTS OF 2 3/8" TBG SECURE WELL SDFN
4/10/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; TRIPPING TBG
	7:00 11:30	4.50	PRDHEQ	39		P		CSIP 0 PSI P/U 5 3/4" NO-GO 2 JTS OF 2 7/8" TBG 5 1/2" PBGA w DIP TUBE 2' X 2 7/8" TBG SUB 2 7/8" PSN 4' X 2 7/8" TBG SUB 4 JTS OF 2 7/8" TBG 7" TAC 321 JTS OF 2 7/8" TBG
	11:30 15:00	3.50	PRDHEQ	16		P		N/D BOPE N/U WELL HEAD B-FLANGE RUN 60' OF CAP STRING FLUSH TBG w 60 BBLS OF HOT 2% KCL WATER
	15:00 18:00	3.00	PRDHEQ	39		P		P/U AND PRIME 2 1/2" X 1 1/2" X 40' RHBC PUMP 18-KBAR 106-3/4" w/g P/U 40-3/4" NEW w/g 143-7/8" w/g SECURE WELL SDFN
4/11/2014	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL TO LOCATION HSM WRITE AND REVIEW JSA TOPIC; TRIPPING RODS
	7:00 9:30	2.50	PRDHEQ	39		P		TSIP ON VACUUM CSIP 0 PSI FINISH TIH w 100- 1" RODS SPACE OUT PUMP w 8', 6', 6', 2', PONY RODS FILL TBG w 35 BBLS OF 2% KCL WATER TEST AND STROKE TEST TO 1000 PSI TEST GOOD
	9:30 11:00	1.50	RDMO	02		P		RDMO SLIDE ROTO FLEX PLUM IN FLOW LINE TURN WELL OVER TO PRODUCTION

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